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01 MTF EAS - HHD

ENUMERATION CONTROLS

Sub-sections: 3, No rosters, Questions: 19.

A. HOUSEHOLD ROSTER

Sub-sections: 3, Rosters: 9, Questions: 62, Static texts: 5.

B. HOUSEHOLD CHARACTERISTICS

Sub-sections: 5, No rosters, Questions: 56, Static texts: 2.

C. SUPPLY AND DEMAND OF ELECTRICITY

No sub-sections, Rosters: 1, Questions: 3, Static texts: 1.

C.1 GOVT. GRID/ TOWN GRID/ BORDER GRID

Sub-sections: 6, Rosters: 1, Questions: 56, Static texts: 1.

C.2 USE OF ELECTRICITY SERVICE FROM MINI GRID

Sub-sections: 5, Rosters: 1, Questions: 57, Static texts: 1.

C.3 USE OF ELECTRICITY FROM ELECTRIC GENERATOR SET

Sub-sections: 5, Rosters: 1, Questions: 43, Static texts: 1.

C.4 USE OF EXTERNALLY RECHARGED BATTERY

Sub-sections: 4, Rosters: 2, Questions: 26, Static texts: 1.

C.5 SOLAR BASED DEVICES

Sub-sections: 3, Rosters: 2, Questions: 51, Static texts: 3.

C.6,7,8 ELECTRICITY, CHARGING, STREET LIGHTING

Sub-sections: 3, No rosters, Questions: 15, Static texts: 1.

D. WILLINGNESS TO PAY FOR ELECTRICITY

Sub-sections: 19, No rosters, Questions: 121, Static texts: 3.

E. CANDLE LIGHTING, DIESEL, KAROSENE FUEL FOR LAMP LIGHTING

Sub-sections: 2, Rosters: 1, Questions: 24, Static texts: 1.

F. USE OF DRY CELL BATTERIES (SIZE D, AA, AAA AND OTHER SIZES)

Sub-sections: 2, Rosters: 2, Questions: 11.

G. HOUSEHOLD FUEL CONSUMPTION

Sub-sections: 11, No rosters, Questions: 79, Static texts: 8.

H. COOKING AND HEATING SOLUTIONS

Sub-sections: 8, Rosters: 2, Questions: 91, Static texts: 2.

I. CONSUMPTION / EXPENDITURE

Sub-sections: 3, No rosters, Questions: 34, Static texts: 4.

J. LAND OWNERSHIP, OTHER ASSETS AND BUSINESS AT HOME

Sub-sections: 4, No rosters, Questions: 63, Static texts: 2.

K. ATTITUDE

Sub-sections: 6, No rosters, Questions: 40, Static texts: 6.

L. WOMEN'S EMPOWERMENT

Sub-sections: 2, No rosters, Questions: 25, Static texts: 2.

GEO B

No sub-sections, No rosters, Questions: 3.

APPENDIX A — ENABLING CONDITIONS

APPENDIX B — VALIDATION CONDITIONS AND MESSAGES

APPENDIX C — OPTIONS

LEGEND

ENUMERATION CONTROLS

ENUMERATION CONTROLS HOUSEHOLD IDENTIFICATION

<p>ID1_01. State/ Region</p>	<p>SINGLE-SELECT ID1_01</p> <ul style="list-style-type: none"> 01 <input type="radio"/> 01-Kachin 02 <input type="radio"/> 02-Kayah 03 <input type="radio"/> 03-Kayin 04 <input type="radio"/> 04-Chin 05 <input type="radio"/> 05-Sagaing 06 <input type="radio"/> 06-Tanintharyi 07 <input type="radio"/> 07-Bago 08 <input type="radio"/> 08-Magway 09 <input type="radio"/> 09-Mandalay 10 <input type="radio"/> 10-Mon 11 <input type="radio"/> 11-Rakhine 12 <input type="radio"/> 12-Yangon 13 <input type="radio"/> 13-Shan 14 <input type="radio"/> 14-Ayeyawady 15 <input type="radio"/> 15-Naypyitaw
<p>ID1_02. Govt. Grid Electrification (Office)</p>	<p>SINGLE-SELECT: CASCADING ID1_02</p> <ul style="list-style-type: none"> 011 <input type="radio"/> Kachin - Urban/ Electrified (Govt. grid) 012 <input type="radio"/> Kachin - Urban/ Non-electrified (Govt. grid) 013 <input type="radio"/> Kachin - Rural/ Electrified (Govt. grid) 014 <input type="radio"/> Kachin - Rural/ Non-electrified (Govt. grid) 023 <input type="radio"/> Kayah - Rural/ Electrified (Govt. grid) 032 <input type="radio"/> Kayin - Urban/ Non-electrified (Govt. grid) 033 <input type="radio"/> Kayin - Rural/ Electrified (Govt. grid) 034 <input type="radio"/> Kayin - Rural/ Non-electrified (Govt. grid) 041 <input type="radio"/> Chin - Urban/ Electrified (Govt. grid) 042 <input type="radio"/> Chin - Urban/ Non-electrified (Govt. grid) 044 <input type="radio"/> Chin - Rural/ Non-electrified (Govt. grid) 051 <input type="radio"/> Sagaing - Urban/ Electrified (Govt. grid) 052 <input type="radio"/> Sagaing - Urban/ Non-electrified (Govt. grid) 053 <input type="radio"/> Sagaing - Rural/ Electrified (Govt. grid) 054 <input type="radio"/> Sagaing - Rural/ Non-electrified (Govt. grid) 062 <input type="radio"/> Tanintharyi - Urban/ Non-electrified (Govt. grid) <p>And 32 other [1]</p>
<p>ID1_03. EA Code & Name</p>	<p>SINGLE-SELECT: CASCADING ID1_03</p> <ul style="list-style-type: none"> 01101 <input type="radio"/> 10101124005 - Myitkyina - Myo Thit Gyi(W)

- 01102 10105102001 - Chiphwe - Oke Kat(W)
- 01203 10104104502 - Tanaing - Kin Sar(W)
- 01204 10203101007 - Phakant - Maw Wam Ward(W)
- 01205 10401102001 - Putao - Ho Kho(W)
- 01306 10201711002 - Mohnyin - Nyaung Pin Thar(VT)
- 01407 10203704026 - Phakant - Haung Par(VT)
- 02301 20101708007 - Loikaw - Chi Kel(VT)
- 02302 20102711005 - Dimawso - Demoso(VT)
- 03201 30152102001 - Shan Ywathit(Sub-Tsp) - No (2)(W)
- 03202 30301103002 - Myawady - Kyan Khin Su(W)
- 03203 30301104003 - Myawady - Myanmar Su(W)
- 03204 30301104043 - Myawady - Myanmar Su(W)
- 03205 30301105029 - Myawady - Ah Nauk Paing(W)
- 03206 30401105001 - Kawkareik - Auk Taung Thu Su(W)
- 03207 30401203003 - Kawkareik - No (3)(W)

And [214 other \[2\]](#)

ID1_04. Locality (Urban/ Rural)	SINGLE-SELECT ID1_04 01 <input type="radio"/> Urban 02 <input type="radio"/> Rural
ID1_05. Current Govt. Grid Electrification	SINGLE-SELECT ID1_05 01 <input type="radio"/> Govt. Grid Electrified 02 <input type="radio"/> Govt. Grid Non-Electrified
ID1_06. Household ID V1 self>=1 && self<=15 M1 Between 1 and 15	NUMERIC: INTEGER ID1_06 -----
ID2_01. Ward/ Village Tract	TEXT ID2_01
ID2_02. Village	TEXT ID2_02
Name of Household Head	TEXT NameHHead
Address	TEXT Address
Household Head Phone Num.	TEXT Phone

ENUMERATION CONTROLS
 INTERVIEW DETAILS

ID3_01. Supervisor ID: _ _ NAME:	TEXT ID3_01
ID3_02. Enumerator ID: _ _ NAME:	TEXT ID3_02

ENUMERATION CONTROLS
ENUMERATION HISTORY

ID4_01a. First Visit: Capture GPS Coordinates of the Dwelling	GPS ID4_01a ----- N ----- W ----- A
ID4_01b. Can you conduct interview on the first visit?	SINGLE-SELECT ID4_01b 01 <input type="radio"/> Can conduct interview 02 <input type="radio"/> Need to come back again
ID4_02a. Second Visit: Capture GPS Coordinates of the Dwelling E ID4_01b==2	GPS ID4_02a ----- N ----- W ----- A
ID4_02a. Can you conduct interview on the second visit? E ID4_01b==2	SINGLE-SELECT ID4_02b 01 <input type="radio"/> Can conduct interview 02 <input type="radio"/> Need to come back again
ID4_03a. Third Visit: Capture GPS Coordinates of the Dwelling E ID4_02b==2	GPS ID4_03a ----- N ----- W ----- A
ID4_03b. Can you conduct interview on the third visit? E ID4_02b==2	SINGLE-SELECT ID4_03b 01 <input type="radio"/> Can conduct interview 02 <input type="radio"/> Need to come back again

A. HOUSEHOLD ROSTER

A. HOUSEHOLD ROSTER
A.1 NO. OF HOUSEHOLD MEMBERS

STATIC TEXT

Household can be one person (i.e. single person household) or a group of two or more (i.e. a multi-person household) persons living together who make common provisions for food and other essentials for living. First, I would like to make a complete list of all the members of this household, that is, all the persons who usually sleep in this dwelling, eat most

of their meals here, and share expenses together. Include all the members of your family, including any children or other persons who may be away for study or work, but who consider this their permanent residence. Also include any other persons who do not have household elsewhere and not related to you but who normally sleep, eat most of their meals here, and share expenses (for example, servants, lodgers, or other persons who is not relatives). DO NOT LIST HOUSEHELP WHO HAVE A HOUSEHOLD ELSEWHERE, AND GUESTS WHO ARE VISITING TEMPORARILY AND HAVE A HOUSEHOLD ELSEWHERE.

STATIC TEXT

How many people who are ... are there in this household? [Record number]

A01_01. Your immediate family who have lived and eaten their meals together here for at least 6 months (in total) during the past 12 months. Number	NUMERIC: INTEGER A01_01 -----
A01_02. Normally live and eat their meals here in household members studying elsewhere or traveling. (in country) Number	NUMERIC: INTEGER A01_02 -----
A01_03. Normally live and eat their meals here in household members studying elsewhere or traveling. (other Country) Number	NUMERIC: INTEGER A01_03 -----
A01_04. Any other persons not related to you or other household members, but who normally live and eat their meals together here, example, servants, lodgers, or other who are not relatives. Number	NUMERIC: INTEGER A01_04 -----
A01_05. Total No. of household members I Make a complete list of all individuals who normally live and eat their meals together in this household, starting with the head of household. V1 self== (A01_01+A01_02+A01_03+A01_04) M1 equal sum of hh member	NUMERIC: INTEGER A01_05 -----

STATIC TEXT

Now, I would like to ask you some information about the people living in this household, as mentioned earlier. Make a complete list of all individuals who normally live and eat their meals together in this household, starting with the head of household. Please tell me the names and following details all the people who live in this house in the following probing sequence: 1. Household Head, a person making the main decisions in the household: Household head can be either male or female. Ask his/her name first and record in the first row of household roster. 2. Spouse of household head (if exists) 3. Immediate family of household head who have lived and eaten their meals together here for at least 6 months (in total) during the past 12 months. 4. Any other persons related to you or other household members who normally live and eat their meals together here. 5. Normally live and eat their meals here in household members studying elsewhere or traveling. 6. Any other persons not related to you or other household members, but who normally live and eat their meals together here, example, servants, lodgers, or other who are not relatives.

A. HOUSEHOLD ROSTER

Roster: A.2 HOUSEHOLD MEMBER IDENTIFICATION

generated by numeric question A01_05

A_HHM_Roster

A02_01. Name First then Last Name	TEXT A02_01 -----
A02_02. Is %A02_01% male or female?	SINGLE-SELECT A02_02 01 <input type="radio"/> Male 02 <input type="radio"/> Female
A02_03. What is the relationship of %A02_01% to household head?	SINGLE-SELECT A02_03 01 <input type="radio"/> Household head 02 <input type="radio"/> Spouse

- 03 Children
- 04 Son-in-law /Daughter-in-law
- 05 Grandchild/ Great grandchild
- 06 Parents / Parents-in-law
- 07 Sibling
- 08 Grandfather/ Grandmother
- 09 Others – Relative
- 10 Adopted son/daughter
- 11 Others – Non-relative

<p>A02_04. How old is %A02_01%? YEARS</p> <p>I Record "0" if infant below 1 year old.</p>	<p>NUMERIC: INTEGER A02_04</p> <p>-----</p>
<p>A02_06. What is %A02_01%'s marital status?</p> <p>E A02_04>=12</p>	<p>SINGLE-SELECT A02_06</p> <p>001 <input type="radio"/> Single</p> <p>002 <input type="radio"/> Married</p> <p>003 <input type="radio"/> Separated/ Divorced</p> <p>004 <input type="radio"/> Widowed</p> <p>555 <input type="radio"/> Other (specify)</p>
<p>A02_06Other. Other (specify)</p> <p>E A02_06==5</p>	<p>TEXT A02_06Other</p> <p>-----</p>
<p>A02_07. Is %A02_01%'s currently living at home or traveling?</p>	<p>SINGLE-SELECT A02_07</p> <p>01 <input type="radio"/> Currently living at home</p> <p>02 <input type="radio"/> On overnight traveling, will not get back during field visit</p> <p>03 <input type="radio"/> Staying in other town/ village for education</p> <p>04 <input type="radio"/> Staying in other country for education</p> <p>05 <input type="radio"/> Staying in other town/ village for work</p> <p>06 <input type="radio"/> Staying in other country for work</p>
<p>Aresp1. Enumerator: Record Respondent ID for this section Individual ID from Household Roster</p>	<p>SINGLE-SELECT: LINKED Aresp1</p>
<p>Aresp2. Enumerator: Record Respondent ID for this section Individual ID from Household Roster</p>	<p>SINGLE-SELECT: LINKED Aresp2</p>

A. HOUSEHOLD ROSTER

Roster: A.3 A.3 EDUCATION/ STUDY TIME FOR AGED 5 YEARS AND ABOVE

generated by numeric question [A01_05](#)

[A3_FiveYearsAbove](#)

<p>E A02_04>=5</p>	
<p>A03_02. Has %A02_01% ever attended school?</p>	<p>SINGLE-SELECT A03_02</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>A03_03. Is %A02_01% currently attending school?</p> <p>E A03_02==1</p>	<p>SINGLE-SELECT A03_03</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>A03_04. What is the highest educational qualification acquired by %A02_01%?</p>	<p>SINGLE-SELECT A03_04</p> <p>00 <input type="radio"/> attending grade 1</p>

- 01 Grade 1 (Kindergarten, Pre-primary)
- 02 Grade 2 (1st std., Primary)
- 03 Grade 3 (2nd std., Primary)
- 04 Grade 4 (3rd std., Primary)
- 05 Grade 5 (4th std., Primary)
- 06 Grade 6 (5th std., Middle school)
- 07 Grade 7 (6th std., Middle school)
- 08 Grade 8 (7th std., Middle school)
- 09 Grade 9 (8th std., Middle school)
- 10 Grade 10 (9th std., High school)
- 11 Grade 11 (10th std., High school)
- 12 University/College classes (Tertiary)
- 13 Vocational trainings
- 14 Diploma (Tertiary)
- 20 Bachelor's Degree (BSc/ BA)

And [4 other \[3\]](#)

<p>A03_05. Does %A02_01% live in this household during school years?</p> <p>E A03_02==1</p>	<p style="text-align: right;">SINGLE-SELECT A03_05</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>A03_06. How many minutes per day does he/she study at home during the day, before sunset? Minutes</p> <p>I If NO write "0" (Instruction: FOR DO NOT LIVE AT HOME DURING THE SCHOOL YEAR)</p> <p>E A03_05==1</p>	<p style="text-align: right;">NUMERIC: INTEGER A03_06</p> <p>-----</p>
<p>A03_07. How many minutes does he/she study or read at home after evening? Minutes</p> <p>I If NO write "0" (Instruction: FOR DO NOT LIVE AT HOME DURING THE SCHOOL YEAR)</p> <p>E A03_05==1</p>	<p style="text-align: right;">NUMERIC: INTEGER A03_07</p> <p>-----</p>

A. HOUSEHOLD ROSTER

Roster: A.4 FOR AGE 15 YEARS AND ABOVE

generated by numeric question [A01_05](#)

A4_FifteenYearsAbove

E A02_04>=15

<p>A04_02. What was %A02_01%'s main occupation for the last 12 months?</p>	<p style="text-align: right;">SINGLE-SELECT A04_02</p> <ul style="list-style-type: none"> 001 <input type="radio"/> Wage Employee, Non-Farm 002 <input type="radio"/> Wage Employee, Farm 003 <input type="radio"/> Self-Employed Non-Farm-Business enterprise 004 <input type="radio"/> Self-Employed Non-Farm-Independent contractor, technician, rofessional, etc 005 <input type="radio"/> Self-Employed Agriculture/Livestock 006 <input type="radio"/> Assistance in family enterprise 007 <input type="radio"/> Casual labor/Day Laborer/ Farm 008 <input type="radio"/> Intern/free labor/voluntary work 009 <input type="radio"/> Student
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- 010 Retired/pensioner
- 011 Too old to work
- 012 Disabled
- 013 Job Seeker
- 014 Unemployed
- 015 House wife/husband
- 555 Other (specify)

<p>A04_02Other. Other (specify)</p> <p>E A04_02==555</p>	<p>TEXT A04_02Other</p> <p>.....</p>
<p>A04_03. Please describe the kind of trade or business %A02_01%'s main occupation best fits from the list of industries.</p> <p>E A04_02.InList (1,2,3,4,5,8,555)</p>	<p>SINGLE-SELECT A04_03</p> <ul style="list-style-type: none"> 01 <input type="radio"/> A - Agriculture, forestry and fishing 02 <input type="radio"/> B - Mining and quarrying 03 <input type="radio"/> C - Manufacturing 04 <input type="radio"/> D - Electricity, gas, steam and air conditioning supply 05 <input type="radio"/> E - Water supply; sewerage, waste management and remediation activities 06 <input type="radio"/> F - Construction 07 <input type="radio"/> G - Wholesale and retail trade; repair of motor vehicles and motorcycles 08 <input type="radio"/> H - Transportation and storage 09 <input type="radio"/> I - Accommodation and food service activities 10 <input type="radio"/> J - Information and communication 11 <input type="radio"/> K - Financial and insurance activities 12 <input type="radio"/> L - Real estate activities 13 <input type="radio"/> M - Professional, scientific and technical activities 14 <input type="radio"/> N - Administrative and support service activities 15 <input type="radio"/> O - Public administration and defense; compulsory social security 16 <input type="radio"/> P - Education <p>And 5 other [4]</p>
<p>A04_04. Out of the last 12 months, how many months were you engaged in this activity? _____ Months (Max 12 months)</p> <p>E A04_02.InList (1,2,3,4,5,6,7,8,555)</p> <p>V1 self<=12</p> <p>M1 Max 12</p>	<p>NUMERIC: INTEGER A04_04</p> <p>-----</p>
<p>A04_05. How many days per month does %A02_01% work in this activity?</p> <p>E A04_02.InList (1,2,3,4,5,6,7,8,555)</p> <p>V1 self<=31</p> <p>M1 Max 31</p>	<p>NUMERIC: INTEGER A04_05</p> <p>-----</p>
<p>A04_06. Please indicate the typical monthly income for this activity. _____ Kyat</p> <p>E A04_02.InList (1,2,3,4,5,6,7,8,555)</p>	<p>NUMERIC: INTEGER A04_06</p> <p>-----</p>
<p>A04_07. Does %A02_01% operate any non-agricultural/ business/ enterprise within this household or compound?</p>	<p>SINGLE-SELECT A04_07</p> <ul style="list-style-type: none"> 01 <input type="radio"/> Yes 02 <input type="radio"/> No

E A04_02.InList(1,2,3,4,5,6,7,8,555)	
A04_08. How many employees are there in this business/ enterprise? Number of employees including full time and Part time	NUMERIC: INTEGER A04_08 -----
E A04_02.InList(1,2,3,4,5,6,7,8,555) && A04_07==1	

A. HOUSEHOLD ROSTER
A.5 REGULAR ACTIVITIES WITH HOUSEHOLD FOR AGED 10 YEARS AND ABOVE

A. HOUSEHOLD ROSTER / A.5 REGULAR ACTIVITIES WITH HOUSEHOLD FOR AGED 10 YEARS AND ABOVE
Roster: A.5.A INDIVIDUAL'S ACTIVITIES IN THE HOUSEHOLD
generated by numeric question A01_05

A5A_ActivitiesIndividual

E A02_04>=10 && A02_07.InList(1,2)	
A05a01. Does %A02_01% do any of the following activity in the household?	MULTI-SELECT A05a01 01 <input type="checkbox"/> Work for household chores 02 <input type="checkbox"/> Caring, attending, or playing with/ for younger children 03 <input type="checkbox"/> Helping with school work for children 04 <input type="checkbox"/> Entertainment and socializing 05 <input type="checkbox"/> None of the above
A05a02. How many hours and minutes per day does he/she work for household chores? Record answer in Minutes	NUMERIC: INTEGER A05a02 -----
E A05a01.Contains(1)	
A05a03. In a typical day, how many total minutes did [PEOPLE] spend... Caring, attending, or playing with/for younger children Minutes	NUMERIC: INTEGER A05a03 -----
E A05a01.Contains(2)	
A05a04. In a typical day, how many total minutes did [PEOPLE] spend... Studying or helping with school work Minutes	NUMERIC: INTEGER A05a04 -----
E A05a01.Contains(3)	
A05a05. In a typical day, how many total minutes did [PEOPLE] spend... Time spent on entertainment and socializing Minutes	NUMERIC: INTEGER A05a05 -----
E A05a01.Contains(4)	

A. HOUSEHOLD ROSTER / A.5 REGULAR ACTIVITIES WITH HOUSEHOLD FOR AGED 10 YEARS AND ABOVE
Roster: A.5.B COOKING AND PREPARATION FOR COOKING
generated by numeric question A01_05

A5B_ActivitiesCooking

E A02_04>=10 && A02_07.InList(1,2)	
A05b01. Does [NAME] cook food for the household (OR) help in cooking?	SINGLE-SELECT A05b01 01 <input type="radio"/> I cook for household 02 <input type="radio"/> I help in cooking 03 <input type="radio"/> Never
A05b02. How frequently does [NAME] cook food for the household (OR) help in cooking?	SINGLE-SELECT A05b02 01 <input type="radio"/> Everyday

E A05b01.InList (1,2)	02 <input type="radio"/> A few times in a week 03 <input type="radio"/> Once a week 04 <input type="radio"/> A few times in a Month 05 <input type="radio"/> Once a month
A05b03. Does [NAME] do any of the following activity in the household?	MULTI-SELECT A05b03 01 <input type="checkbox"/> Gathering, collecting or purchasing fuels for household 02 <input type="checkbox"/> Preparing fuel/energy source (chopping, making pellets) 03 <input type="checkbox"/> Cooking (food, tea, boiling water) 04 <input type="checkbox"/> Using stove or space heaters for other (Doing household chores) 05 <input type="checkbox"/> Other time spent in cooking area(s) 06 <input type="checkbox"/> None of the above
A05b04. In a typical day, how many total minutes did [PEOPLE] spend... Gathering, collecting or purchasing fuels including travel time Minutes	NUMERIC: INTEGER A05b04 -----
E A05b03.Contains (1)	
A05b05. In a typical day, how many total minutes did [PEOPLE] spend... Preparing fuel/energy source (chopping, making pellets) Minutes	NUMERIC: INTEGER A05b05 -----
E A05b03.Contains (2)	
A05b06. In a typical day, how many total minutes did [PEOPLE] spend... Cooking (food, tea, boiling water) Minutes	NUMERIC: INTEGER A05b06 -----
E A05b03.Contains (3)	
A05b07. In a typical day, how many total minutes did [PEOPLE] spend... Using stove or space heaters for other (Doing household chores) Minutes	NUMERIC: INTEGER A05b07 -----
E A05b03.Contains (4)	
A05b08. In a typical day, how many total minutes did [PEOPLE] spend... Other time spent in cooking area(s) Minutes	NUMERIC: INTEGER A05b08 -----
E A05b03.Contains (5)	

A. HOUSEHOLD ROSTER / A.5 REGULAR ACTIVITIES WITH HOUSEHOLD FOR AGED 10 YEARS AND ABOVE

Roster: A.5.C INCOME GENERATION ACTIVITY AT HOME

generated by numeric question A01 05

A5C_ActivitiesIncome

E A02_04>=10 && A02_07.InList (1,2)	
A05c01. Does [NAME] do any of the following income generating activity in the household?	MULTI-SELECT A05c01 01 <input type="checkbox"/> Working for pay outside of the house 02 <input type="checkbox"/> Income generating activities inside the house 03 <input type="checkbox"/> Helping with school work for children 04 <input type="checkbox"/> Entertainment and socializing

	05 <input type="checkbox"/> None of the above
A05c02. For income generation: In a typical day, how many total minutes did [PEOPLE] spend... Working for pay outside of the house (employed and self-employed) Minutes	NUMERIC: INTEGER A05c02 -----
E A05c01.Contains(1)	
A05c03. For income generation: In a typical day, how many total minutes did [PEOPLE] spend... Income generating activities inside the house Minutes	NUMERIC: INTEGER A05c03 -----
E A05c01.Contains(2)	
A05c04. How many hours and minutes per day does he/she work in IGAs in the household AT NIGHT OR EVENING AFTER DARK? Record answer in Minutes	NUMERIC: INTEGER A05c04 -----
E A05c01.ContainsAny(1,2,3,4)	
A05c05. For income generation: In a typical day, how many total minutes did [PEOPLE] spend... Gathering, collecting, purchasing fuels (including travel time) Minutes	NUMERIC: INTEGER A05c05 -----
E A05c01.ContainsAny(1,2,3,4)	

A. HOUSEHOLD ROSTER

A.6 ILLNESS AND HEALTH IMPACTS

A. HOUSEHOLD ROSTER / A.6 ILLNESS AND HEALTH IMPACTS

Roster: A.6.A ILLNESS IN THE PAST 6 MONTHS

generated by numeric question [A01_05](#)

A6A_Illness

E A02_07.InList(1,2)	
A06a01. Did %A02_01% suffer from illness in last 6 months?	SINGLE-SELECT A06a01 01 <input type="radio"/> Yes 02 <input type="radio"/> No
A06a02. How many days were lost due to such illness (paid work, school, and domestic work)? Number of days	NUMERIC: INTEGER A06a02 -----
E A06a01==1	
A06a03. Did you take any medical service, treatment or medicine for that?	SINGLE-SELECT A06a03 01 <input type="radio"/> Yes 02 <input type="radio"/> No
E A06a01==1	
A06a04. Do you get information on health and hygiene from TV, radio, and smart phone?	SINGLE-SELECT A06a04 01 <input type="radio"/> Yes 02 <input type="radio"/> No

A. HOUSEHOLD ROSTER / A.6 ILLNESS AND HEALTH IMPACTS

Roster: A.6.B IN THE LAST 14 DAYS

generated by numeric question [A01_05](#)

A6B_HHMHealthImpacts14Days

E A02_07.InList(1,2)

STATIC TEXT

In the last 14 days, have you experienced

<p>A06b01. Has [Name] experienced an illness with a cough at any time in the last 14 days?</p>	<p>SINGLE-SELECT A06b01</p> <p>001 <input type="radio"/> Yes</p> <p>002 <input type="radio"/> No</p> <p>777 <input type="radio"/> Don't know</p>
<p>A06b02 Has [Name] experienced an illness with a cough, did you go see a doctor/clinic in the last 14 days?</p> <p>E A06b01==1</p>	<p>SINGLE-SELECT A06b02</p> <p>001 <input type="radio"/> Yes</p> <p>002 <input type="radio"/> No</p> <p>777 <input type="radio"/> Don't know</p>
<p>A06b03. Has [Name] experienced an illness with a cough, how many breathed faster than usual with short, rapid breaths or had difficulty breathing in the last 14 days?</p> <p>E A06b01==1</p>	<p>SINGLE-SELECT A06b03</p> <p>001 <input type="radio"/> Yes</p> <p>002 <input type="radio"/> No</p> <p>777 <input type="radio"/> Don't know</p>
<p>A06b04. Has [Name] experienced short, rapid breaths or difficult breathing, experienced a problem in the chest or a blocked or runny nose in the last 14 days?</p>	<p>SINGLE-SELECT A06b04</p> <p>001 <input type="radio"/> Chest only</p> <p>002 <input type="radio"/> Nose</p> <p>003 <input type="radio"/> Both</p> <p>004 <input type="radio"/> Other</p> <p>005 <input type="radio"/> No</p> <p>777 <input type="radio"/> Don't know</p>
<p>A06b05. Has [Name] experienced eye irritation or eye problems in the last 14 days in the last 14 days?</p>	<p>SINGLE-SELECT A06b05</p> <p>001 <input type="radio"/> Yes</p> <p>002 <input type="radio"/> No</p> <p>777 <input type="radio"/> Don't know</p>
<p>A06b06. Which of the following best fit for [Name]?</p> <p>E A02_04>=15</p>	<p>SINGLE-SELECT A06b06</p> <p>001 <input type="radio"/> Regular smoker (At least once a day)</p> <p>002 <input type="radio"/> Occational smoker (Not smoke once a day)</p> <p>003 <input type="radio"/> Previous Smoker</p> <p>004 <input type="radio"/> Not a smoker (now OR before)</p> <p>777 <input type="radio"/> Don't know</p>

A. HOUSEHOLD ROSTER / A.6 ILLNESS AND HEALTH IMPACTS

Roster: A.6.C IN THE LAST 12 MONTHS

generated by numeric question [A01_05](#)

A6C_HHMHealthImpacts12Months

E A02_07.InList (1, 2)

STATIC TEXT

IN THE LAST 12 MONTHS, HAVE YOU EXPERIENCED...

<p>A06c01. Has [Name] experienced Poisoning from liquid fuel in the last 12 months?</p>	<p>SINGLE-SELECT A06c01</p> <p>001 <input type="radio"/> Yes</p> <p>002 <input type="radio"/> No</p> <p>777 <input type="radio"/> Don't know</p>
<p>A06c02. Has [Name] experienced Burns related to cooking or heating or fuel in the last 12 months?</p>	<p>SINGLE-SELECT A06c02</p> <p>001 <input type="radio"/> Yes</p> <p>002 <input type="radio"/> No</p> <p>777 <input type="radio"/> Don't know</p>
<p>A06c03. Has [Name] experienced Of the burns related to fuel--Burns that required a visit to the clinic/hospital in the last 12 months?</p>	<p>SINGLE-SELECT A06c03</p> <p>001 <input type="radio"/> Yes</p>

E A06c02==1	002 <input type="radio"/> No 777 <input type="radio"/> Don't know	
A06c04. Has [Name] experienced Back or neck problems from carrying fuel for cooking/heating in the last 12 months?	SINGLE-SELECT 001 <input type="radio"/> Yes 002 <input type="radio"/> No 777 <input type="radio"/> Don't know	A06c04
A06c05. A50 Has [Name] experienced Electrical injuries (e.g. shocks) that prevent attendance in school/work in the last 12 months?	SINGLE-SELECT 001 <input type="radio"/> Yes 002 <input type="radio"/> No 777 <input type="radio"/> Don't know	A06c05
A06c06. Has [Name] experienced Other minor electrical injuries in the last 12 months?	SINGLE-SELECT 001 <input type="radio"/> Yes 002 <input type="radio"/> No 777 <input type="radio"/> Don't know	A06c06

B. HOUSEHOLD CHARACTERISTICS

STATIC TEXT

Interviewer Instructions: The Respondent should be the head of household.

Bresp1. Enumerator: Record Respondent ID for this section Individual ID from Household Roster	SINGLE-SELECT: LINKED	Bresp1
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B. HOUSEHOLD CHARACTERISTICS

B. HOUSEHOLD CHARACTERISTICS

B01_01. Does your household live in this dwelling for the entire year?	SINGLE-SELECT 01 <input type="radio"/> Yes 02 <input type="radio"/> No	B01_01
B01_02. Is this your main dwelling? The dwelling that you live in for most of the year.	SINGLE-SELECT 01 <input type="radio"/> Yes 02 <input type="radio"/> No	B01_02
B01_03. How many years have you been living in this community? (Number of years) Record 1 if less than 1. Number of years	NUMERIC: INTEGER -----	B01_03
B01_04. What is the type of dwelling unit? (Refer to structure type only) (Enumerator, check with observation)	SINGLE-SELECT 001 <input type="radio"/> Single family house 002 <input type="radio"/> Multi-family house 003 <input type="radio"/> Multi-dwelling building with 3 or more flats/ apartments 004 <input type="radio"/> Apartment or house with attached business or shop 005 <input type="radio"/> Room in a hostel 006 <input type="radio"/> Hut/ improvised housing unit 555 <input type="radio"/> Other, specify	B01_04
B01_04Other. Other,Specify	TEXT	B01_04Other
E B01_04==555		
B01_05. How many families live in this dwelling	NUMERIC: INTEGER	B01_05

<p>unit?(Number of households)</p> <p>E B01_04.InList (2, 4, 5, 555)</p> <p>V1 self>1</p> <p>M1 greather than 1</p>	<p>-----</p>
<p>B01_06. Do you own this dwelling?</p>	<p>SINGLE-SELECT B01_06</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>B01_07. Do you use it for free or rent it?</p> <p>E B01_06==2</p>	<p>SINGLE-SELECT B01_07</p> <p>01 <input type="radio"/> Free</p> <p>02 <input type="radio"/> Rented</p>
<p>B01_08. How many rooms (excluding the kitchen, toilet, and bathroom) does the household occupy? Record number of rooms</p> <p>E B01_07==2</p>	<p>NUMERIC: INTEGER B01_08</p> <p>-----</p>
<p>B01_09. The walls of the dwelling are mainly made of what material? Check with observation</p>	<p>SINGLE-SELECT B01_09</p> <p>01 <input type="radio"/> Thatch/ large leaves/ Palm/ dhani</p> <p>02 <input type="radio"/> Bamboo</p> <p>03 <input type="radio"/> Rudimentary wood</p> <p>04 <input type="radio"/> Unbaked brick and mud</p> <p>05 <input type="radio"/> Baked brick and cement</p> <p>07 <input type="radio"/> Pucca cement</p> <p>08 <input type="radio"/> Finished wood</p> <p>09 <input type="radio"/> Tarpaulin</p> <p>10 <input type="radio"/> Other (Specify)</p>
<p>B01_09Other. Other,Specify</p> <p>E B01_09==555</p>	<p>TEXT B01_09Other</p> <p>-----</p>
<p>B01_10. The roof of the dwelling is mainly made of what material? Check with observation</p>	<p>SINGLE-SELECT B01_10</p> <p>001 <input type="radio"/> Thatch/ large leaves/ Palm/ dhani</p> <p>002 <input type="radio"/> Bamboo</p> <p>003 <input type="radio"/> Tin pieces</p> <p>004 <input type="radio"/> Tiles</p> <p>005 <input type="radio"/> Corrugated metal</p> <p>006 <input type="radio"/> Wooden shingles</p> <p>007 <input type="radio"/> Cement</p> <p>008 <input type="radio"/> Tarpaulin</p> <p>555 <input type="radio"/> Other (Specify):</p>
<p>B01_10Other. Other,Specify</p> <p>E B01_10==555</p>	<p>TEXT B01_10Other</p> <p>-----</p>
<p>B01_11. The floor of the dwelling is mainly made of what material? Check with observation</p>	<p>SINGLE-SELECT B01_11</p> <p>001 <input type="radio"/> Earth/ sand</p> <p>002 <input type="radio"/> Wood planks</p> <p>003 <input type="radio"/> Palm/ Bamboo</p> <p>004 <input type="radio"/> Combination earth & wood/ palm/ bamboo</p> <p>005 <input type="radio"/> Parquet or polished wood</p> <p>006 <input type="radio"/> Tongue and groove wood</p> <p>007 <input type="radio"/> Cement</p> <p>008 <input type="radio"/> Wood with covering</p> <p>009 <input type="radio"/> Cement with covering</p> <p>010 <input type="radio"/> Combination cement/ finished wood and other</p> <p>555 <input type="radio"/> Other (Specify):</p>

<p>B01_11Other. Other,Specify</p> <p>E B01_11==555</p>	<p>TEXT</p> <p>B01_11Other</p> <p>.....</p>
<p>B01_12. What type of toilet facility does your household use? Multiple responses possible.</p>	<p>MULTI-SELECT</p> <p>B01_12</p> <p>001 <input type="checkbox"/> None (open field)</p> <p>002 <input type="checkbox"/> Flush to sewage</p> <p>003 <input type="checkbox"/> Flush to septic tank</p> <p>004 <input type="checkbox"/> Pail/Bucket</p> <p>005 <input type="checkbox"/> Covered pit latrine</p> <p>006 <input type="checkbox"/> Uncovered pit latrine</p> <p>007 <input type="checkbox"/> Community latrine</p> <p>555 <input type="checkbox"/> Other, specify</p>
<p>B01_12Other. Other,Specify</p> <p>E B01_12.Contains (555)</p>	<p>TEXT</p> <p>B01_12Other</p> <p>.....</p>
<p>B01_13. TWhat is your household's main source of drinking water?</p>	<p>SINGLE-SELECT</p> <p>B01_13</p> <p>001 <input type="radio"/> Pipe borne water treated</p> <p>002 <input type="radio"/> Pipe borne water untreated</p> <p>003 <input type="radio"/> Bore hole/ hand pump</p> <p>004 <input type="radio"/> Boiled water</p> <p>005 <input type="radio"/> Well/spring protected</p> <p>006 <input type="radio"/> Well/spring unprotected</p> <p>007 <input type="radio"/> River/spring</p> <p>008 <input type="radio"/> Lake/reservoir</p> <p>009 <input type="radio"/> Rain water</p> <p>010 <input type="radio"/> Tanker/truck/vendor</p> <p>011 <input type="radio"/> Bottle water</p> <p>555 <input type="radio"/> Other, specify</p>
<p>B01_13Other. Other,Specify</p> <p>E B01_13==555</p>	<p>TEXT</p> <p>B01_13Other</p> <p>.....</p>
<p>B01_14. Is your drinking water treated (chemical treatment)?</p>	<p>SINGLE-SELECT</p> <p>B01_14</p> <p>001 <input type="radio"/> Yes</p> <p>002 <input type="radio"/> No</p> <p>888 <input type="radio"/> Don't know</p>

B. HOUSEHOLD CHARACTERISTICS

B.2 ACCESS TO FINANCE AND MOBILE MONEY

<p>B02_01. Does anyone in the household have a bank account at a formal institution?</p>	<p>SINGLE-SELECT</p> <p>B02_01</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>B02_02. At which institution is this account or savings? Read options aloud</p> <p>E B02_01==1</p>	<p>SINGLE-SELECT</p> <p>B02_02</p> <p>001 <input type="radio"/> Commercial bank</p> <p>002 <input type="radio"/> Cooperative credit union</p> <p>003 <input type="radio"/> Microfinance institution</p> <p>555 <input type="radio"/> Other, specify</p>
<p>B02_02Other. Other,Specify</p> <p>E B02_02==555</p>	<p>TEXT</p> <p>B02_02Other</p> <p>.....</p>
<p>B02_03. Does anyone in the household have an account at an informal institution?</p>	<p>SINGLE-SELECT</p> <p>B02_03</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>

<p>B02_04. At which informal institution is this account? Multiple responses possible</p> <p>E B02_03==1</p>	<p>MULTI-SELECT B02_04</p> <p>001 <input type="checkbox"/> Group savings (rotational)</p> <p>002 <input type="checkbox"/> Group savings (one-time disbursement)</p> <p>555 <input type="checkbox"/> Other, specify</p>
<p>B02_04Other. Other,Specify</p> <p>E B02_04.Contains (555)</p>	<p>TEXT B02_04Other</p> <p>.....</p>
<p>B02_05. If you can get a loan/credit, what are the sources of credit/loans? Multiple responses possible</p>	<p>MULTI-SELECT B02_05</p> <p>001 <input type="checkbox"/> Commercial/government bank</p> <p>002 <input type="checkbox"/> Cooperative credit union</p> <p>003 <input type="checkbox"/> Microfinance institution</p> <p>004 <input type="checkbox"/> Rural bank</p> <p>005 <input type="checkbox"/> State loan</p> <p>006 <input type="checkbox"/> NGO</p> <p>007 <input type="checkbox"/> Business firm</p> <p>008 <input type="checkbox"/> Employer</p> <p>009 <input type="checkbox"/> SACCO/Moneylender</p> <p>010 <input type="checkbox"/> Shop</p> <p>011 <input type="checkbox"/> Relative/friend/neighbor</p> <p>012 <input type="checkbox"/> Mobile money services</p> <p>013 <input type="checkbox"/> Cannot get a loan/credit</p> <p>555 <input type="checkbox"/> Other, specify</p>
<p>B02_05Other. Other,Specify</p> <p>E B02_05.Contains (555)</p>	<p>TEXT B02_05Other</p> <p>.....</p>
<p>B02_06. Do you have a mobile money account?</p>	<p>SINGLE-SELECT B02_06</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>B02_07. Do you use mobile money to make payments over the mobile phone?</p> <p>E B02_06==1</p>	<p>SINGLE-SELECT B02_07</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>B02_08. Have you used the account in the past 90 days?</p> <p>E B02_06==1</p>	<p>SINGLE-SELECT B02_08</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>B02_09. How do you use the mobile money services? (Mark all that apply)</p> <p>E B02_06==1</p>	<p>MULTI-SELECT B02_09</p> <p>001 <input type="checkbox"/> Receive money from family/friends/other</p> <p>002 <input type="checkbox"/> Transfer credit to family/relatives</p> <p>003 <input type="checkbox"/> Top up credit</p> <p>004 <input type="checkbox"/> Receive NGO/State support</p> <p>005 <input type="checkbox"/> Pay for Electricity</p> <p>006 <input type="checkbox"/> Pay for Water</p> <p>007 <input type="checkbox"/> Internet top-up/credit</p> <p>008 <input type="checkbox"/> Commercial purchases</p> <p>009 <input type="checkbox"/> Insurance</p> <p>010 <input type="checkbox"/> Loan payments</p> <p>011 <input type="checkbox"/> Savings</p> <p>012 <input type="checkbox"/> Get small loans from mobile provider</p> <p>555 <input type="checkbox"/> Other, specify</p>
<p>B02_09Other. Other,Specify</p> <p>E B02_09.Contains (555)</p>	<p>TEXT B02_09Other</p> <p>.....</p>

B. HOUSEHOLD CHARACTERISTICS

B.3 TRANSPORTATION AND AGRICULTURAL EQUIPMENT OWNERSHIP

STATIC TEXT

Interviewer Instructions: The Respondent should be the head of household.

B. HOUSEHOLD CHARACTERISTICS / B.3 TRANSPORTATION AND AGRICULTURAL EQUIPMENT OWNERSHIP

B.3A. VEHICLES AND PRODUCTIVE ASSETS

<p>B03a_01. How many Domestic vehicle in (working condition or still healthy) does your household own? Write 0 if none 0 NEXT ROW</p>	<p>NUMERIC: INTEGER B03a_01 -----</p>
<p>B03a_02. How many Commercial vehicle in (working condition or still healthy) does your household own? Write 0 if none 0 NEXT ROW</p>	<p>NUMERIC: INTEGER B03a_02 -----</p>
<p>B03a_03. How many Motorcycle in (working condition or still healthy) does your household own? Write 0 if none 0 NEXT ROW</p>	<p>NUMERIC: INTEGER B03a_03 -----</p>
<p>B03a_04. How many Electric bicycle in (working condition or still healthy) does your household own? Write 0 if none 0 NEXT ROW</p>	<p>NUMERIC: INTEGER B03a_04 -----</p>
<p>B03a_05. How many Bicycle in (working condition or still healthy) does your household own? Write 0 if none 0 NEXT ROW</p>	<p>NUMERIC: INTEGER B03a_05 -----</p>
<p>B03a_06. How many Motor boat in (working condition or still healthy) does your household own? Write 0 if none 0 NEXT ROW</p>	<p>NUMERIC: INTEGER B03a_06 -----</p>
<p>B03a_07. How many Other boat in (working condition or still healthy) does your household own? Write 0 if none 0 NEXT ROW</p>	<p>NUMERIC: INTEGER B03a_07 -----</p>
<p>B03a_08. How many Animal pulled cart in (working condition or still healthy) does your household own? Write 0 if none 0 NEXT ROW</p>	<p>NUMERIC: INTEGER B03a_08 -----</p>
<p>B03a_09. How many Tractor in (working condition or still healthy) does your household own? Write 0 if none 0 NEXT ROW</p>	<p>NUMERIC: INTEGER B03a_09 -----</p>
<p>B03a_10. How many Power tiller in (working condition or still healthy) does your household own? Write 0 if none 0 NEXT ROW</p>	<p>NUMERIC: INTEGER B03a_10 -----</p>
<p>B03a_11. How many Water pump for irrigation in (working condition or still healthy) does your household own? Write 0 if none 0 NEXT ROW</p>	<p>NUMERIC: INTEGER B03a_11 -----</p>
<p>B03a_12. How many Motorized crusher for irrigation in (working condition or still healthy)</p>	<p>NUMERIC: INTEGER B03a_12</p>

does your household own? Write 0 if none 0
NEXT ROW

B. HOUSEHOLD CHARACTERISTICS / B.3 TRANSPORTATION AND AGRICULTURAL EQUIPMENT OWNERSHIP
B.3B. DRAUGHT/ BREEDING ANIMALS

B03b_01. How many Cow/bull/calves in (working condition or still healthy) does your household own? Write 0 if none 0 NEXT ROW

NUMERIC: INTEGER B03b_01

B03b_02. How many Water buffalo in (working condition or still healthy) does your household own? Write 0 if none 0 NEXT ROW

NUMERIC: INTEGER B03b_02

B03b_03. How many Horse/donkey in (working condition or still healthy) does your household own? Write 0 if none 0 NEXT ROW

NUMERIC: INTEGER B03b_03

B03b_04. How many Sheep in (working condition or still healthy) does your household own? Write 0 if none 0 NEXT ROW

NUMERIC: INTEGER B03b_04

B03b_05. How many Goat in (working condition or still healthy) does your household own? Write 0 if none 0 NEXT ROW

NUMERIC: INTEGER B03b_05

B03b_06. How many Pig in (working condition or still healthy) does your household own? Write 0 if none 0 NEXT ROW

NUMERIC: INTEGER B03b_06

B03b_07. How many Poultry in (working condition or still healthy) does your household own? Write 0 if none 0 NEXT ROW

NUMERIC: INTEGER B03b_07

B03b_08. How many Fish (Aquaculture) in (working condition or still healthy) does your household own? Write 0 if none 0 NEXT ROW

NUMERIC: INTEGER B03b_08

B03b_09. How many Other(specify) in (working condition or still healthy) does your household own? Write 0 if none 0 NEXT ROW

NUMERIC: INTEGER B03b_09

B03b_09Other. Other(Specify)

TEXT B03b_09Other

E B03b_09>=1

.....

C. SUPPLY AND DEMAND OF ELECTRICITY

STATIC TEXT

Instructions: This module should be completed by the most knowledgeable member on household electricity. Concerted answers should be allowed.

Cresp1. Enumerator: Record Respondent ID for this section Individual ID from Household

SINGLE-SELECT: LINKED

Cresp1

C1. Does your house have the following light bulbs/ electrical products? Read option

- MULTI-SELECT: YES/NO C1
- 101 / Less than 25W
 - 102 / Incandescent light bulbs (25W to 40W)
 - 103 / Incandescent light bulbs (41W to 75W)
 - 104 / Incandescent light bulbs (76W and above)
 - 201 / Fluorescent light tubes (10 W)
 - 202 / Fluorescent light tubes (20 W)
 - 203 / Fluorescent light tubes (40 W)
 - 301 / Compact fluorescent light bulbs (<9 W)
 - 302 / Compact fluorescent light bulbs (9W to 15W)
 - 303 / Compact fluorescent light bulbs (16W-20W)
 - 304 / Compact fluorescent light bulbs (21W to 30W)
 - 305 / Compact fluorescent light bulbs (31W to 40W)
 - 306 / Compact fluorescent light bulbs (41 W – 50W)
 - 307 / Compact fluorescent light bulbs 51W and above
 - 401 / LED light bulbs (<9 W)
 - 402 / LED light bulbs (9W to 15W)
- And [44 other \[5\]](#)

C. SUPPLY AND DEMAND OF ELECTRICITY
 Roster: USE OF ELECTRICITY
 generated by multi-select question C1

C1_5UseOfElectricity

C2. how many of the %rostertitle% do you have?

NUMERIC: INTEGER C2

C.1 GOVT. GRID/ TOWN GRID/ BORDER GRID

C01f01. Is the household connected to Grid, Border or Thai Grid, Township Own Grid, Mini grid or No grid connection at all?

- SINGLE-SELECT C01f01
- 01 National grid
 - 02 Border or Thai grid
 - 03 Township own grid
 - 04 Minigrid connection
 - 05 No grid connection

C.1 GOVT. GRID/ TOWN GRID/ BORDER GRID
 C.1.A CONNECTION

E C01f01.InList (1, 2, 3)

C01a01. How many years have you had this grid connection? Record in years, if less than 1 year record 1 Number of Years Don't know.....888

NUMERIC: INTEGER C01a01

<p>C01a02. How much did your household pay for the network construction? Local currency Don't know.....888</p>	<p>NUMERIC: INTEGER C01a02</p> <p>-----</p>
<p>C01a03a. How much did your household pay for the connection fee? Refer to connection fee including meter. Local currency Don't know.....888</p>	<p>NUMERIC: INTEGER C01a03a</p> <p>-----</p>
<p>C01a03b. How much did your household pay for the internal wiring fee? Do not include the connection fee from C01a02 here Local currency Don't know.....888</p>	<p>NUMERIC: INTEGER C01a03b</p> <p>-----</p>
<p>C01a04. How many weeks after you applied for the grid connection did your household get connected? (Insert 0 if immediate) Number of weeks Don't know.....888</p>	<p>NUMERIC: INTEGER C01a04</p> <p>-----</p>
<p>C01a05. How many weeks after you were connected were you able to use electricity in your home? (Insert 0 if immediate) Number of weeks Don't know.....888</p>	<p>NUMERIC: INTEGER C01a05</p> <p>-----</p>
<p>C01a06. Does your house have an electric meter?</p>	<p>SINGLE-SELECT C01a06</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>C01a07. Does your house share the electric meter?</p>	<p>SINGLE-SELECT C01a07</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>E C01a06==1</p>	
<p>C01a08. How many house are sharing the meter? Number of Households</p>	<p>NUMERIC: INTEGER C01a08</p> <p>-----</p>
<p>E C01a07==1</p>	
<p>C01a09. How are you billed for electricity? Read options aloud</p>	<p>SINGLE-SELECT C01a09</p> <p>001 <input type="radio"/> Pay by unit as indicated by the meter</p> <p>002 <input type="radio"/> Utility estimate consumption</p> <p>003 <input type="radio"/> Fixed fee</p> <p>004 <input type="radio"/> Pay by number of lights and appliances</p> <p>005 <input type="radio"/> No bill for electricity or do not have to pay</p> <p>555 <input type="radio"/> Other, specify</p>
<p>C01a09Other. Other, Specify</p>	<p>TEXT C01a09Other</p> <p>-----</p>
<p>E C01a09==555</p>	
<p>C01a10. Who do you pay electricity service to?</p>	<p>SINGLE-SELECT C01a10</p> <p>001 <input type="radio"/> Government (EPC) or Utility Company</p> <p>002 <input type="radio"/> Pay at the bank/post office</p> <p>003 <input type="radio"/> Credits using mobile money (to EPC, utility company)</p> <p>004 <input type="radio"/> Pay to Relative /Neighbor</p> <p>005 <input type="radio"/> Pay to Landlord</p> <p>006 <input type="radio"/> Pay no one, do not pay</p> <p>555 <input type="radio"/> Other, specify</p>

<p>C01a10Other. Other, Specify</p> <p>E C01a10==555</p>	<p>TEXT</p> <p style="text-align: right;">C01a10other</p> <p>-----</p>
<p>C01a11. Enumerator: If the respondent pays the energy company or has a record of the electricity payment, ask to see the electricity bill/invoice and use it for C01a12 and C01a13 .</p>	<p>SINGLE-SELECT</p> <p style="text-align: right;">C01a11</p> <p>01 <input type="radio"/> Respondent has energy bill and shows it</p> <p>02 <input type="radio"/> Respondent has energy bill but refuses to show it or could not locate it</p> <p>03 <input type="radio"/> Respondent does not have an energy bill</p>
<p>C01a12. In a typical month, how much did you spend on the electric bill? Calculate amount paid from the last bill. Local Currency Don't Know.....888</p>	<p>NUMERIC: INTEGER</p> <p style="text-align: right;">C01a12</p> <p>-----</p>
<p>C01a13. In a typical month how much electricity did your household consume? Quantity in Kilowatt Hour (kWh) Don't Know.....888</p>	<p>NUMERIC: INTEGER</p> <p style="text-align: right;">C01a13</p> <p>-----</p>

C.1 GOVT. GRID/ TOWN GRID/ BORDER GRID
C.1.B AVAILABILITY/ RELIABILITY AND QAULITY OF SERVICE

E C01f01.InList (1,2,3)

<p>C01b01. Is the quality of electricity service the same all year?</p>	<p>SINGLE-SELECT</p> <p style="text-align: right;">C01b01</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>C01b02a. In the last 12 months, (start from this month) which months have no electric service. (Multiple response)</p> <p>V1 (!self.Contains(777) && self.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14)) (self.Contains(777) && !self.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14))</p> <p>M1 if choose none, not choose other</p>	<p>MULTI-SELECT</p> <p style="text-align: right;">C01b02a</p> <p>001 <input type="checkbox"/> January (ပုဂ္ဂိုလ် - ဆောင်ရွက်)</p> <p>002 <input type="checkbox"/> February (တပို့တံ - ဆောင်ရွက်)</p> <p>003 <input type="checkbox"/> March (တပေဂျင် - နှင့်)</p> <p>004 <input type="checkbox"/> April (တနင်္ဂနွေ - နှင့်)</p> <p>005 <input type="checkbox"/> May (ကဆုန် - နှင့်)</p> <p>006 <input type="checkbox"/> June (နယုန် - မိုး)</p> <p>007 <input type="checkbox"/> July (ဝါဆို - မိုး)</p> <p>008 <input type="checkbox"/> August (ဝါခေါင် - မိုး)</p> <p>009 <input type="checkbox"/> September (တောသလင်း - မိုး)</p> <p>010 <input type="checkbox"/> October (သီတင်းကဏ္ဍတင် - မိုး)</p> <p>011 <input type="checkbox"/> November (တနင်္ဂနွေ - ဆောင်ရွက်)</p> <p>012 <input type="checkbox"/> December (နတ်တော် - ဆောင်ရွက်)</p> <p>777 <input type="checkbox"/> None</p>
<p>C01b02b. In the last 12 months, (start from this month) which months have the worst electric service. (Multiple response)</p> <p>V1 ((C01b02a.Contains(1) && !C01b02b.Contains(1)) (!C01b02a.Contains(1) && C01b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14,777))) && ((C01b02a.Contains(2) && !C01b02b.Contains(2)) (!C01b02a And 1770 other symbols [1]))</p> <p>M1 not equal no services</p> <p>V2 (!self.Contains(777) && self.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14)) (self.Contains(777) && !self.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14))</p> <p>M2 if choose none, not choose other</p>	<p>MULTI-SELECT</p> <p style="text-align: right;">C01b02b</p> <p>001 <input type="checkbox"/> January (ပုဂ္ဂိုလ် - ဆောင်ရွက်)</p> <p>002 <input type="checkbox"/> February (တပို့တံ - ဆောင်ရွက်)</p> <p>003 <input type="checkbox"/> March (တပေဂျင် - နှင့်)</p> <p>004 <input type="checkbox"/> April (တနင်္ဂနွေ - နှင့်)</p> <p>005 <input type="checkbox"/> May (ကဆုန် - နှင့်)</p> <p>006 <input type="checkbox"/> June (နယုန် - မိုး)</p> <p>007 <input type="checkbox"/> July (ဝါဆို - မိုး)</p> <p>008 <input type="checkbox"/> August (ဝါခေါင် - မိုး)</p> <p>009 <input type="checkbox"/> September (တောသလင်း - မိုး)</p> <p>010 <input type="checkbox"/> October (သီတင်းကဏ္ဍတင် - မိုး)</p> <p>011 <input type="checkbox"/> November (တနင်္ဂနွေ - ဆောင်ရွက်)</p> <p>012 <input type="checkbox"/> December (နတ်တော် - ဆောင်ရွက်)</p>

STATIC TEXT

Ask respondent first about the worst months and then about a typical month for C01b01 to C01b08 If no seasonal changes, ask only about a typical month. Ask questions by ROW. A. WORST MONTHS B. TYPICAL MONTH

<p>C01b03a1. Do you receive information about a “load-shedding” schedule (load shedding is the set hours of electricity available from the grid)? A. WORST MONTHS</p>	<p>SINGLE-SELECT C01b03a1 01 <input type="radio"/> Yes 02 <input type="radio"/> No</p>
<p>E C01b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12)</p>	
<p>C01b03a2. Do you receive information about a “load-shedding” schedule (load shedding is the set hours of electricity available from the grid)? B. TYPICAL MONTH OR OK MONTH</p>	<p>SINGLE-SELECT C01b03a2 01 <input type="radio"/> Yes 02 <input type="radio"/> No</p>
<p>C01b03b1. How many days a week you receive electricity from the grid. A. WORST MONTHS Days per week _____ (Max 7)</p>	<p>NUMERIC: INTEGER C01b03b1 -----</p>
<p>E C01b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12) V1 self<=7 M1 Max 7</p>	
<p>C01b03b2. How many days a week you receive electricity from the grid. B. TYPICAL MONTH OR OK MONTH Days per week _____ (Max 7)</p>	<p>NUMERIC: INTEGER C01b03b2 -----</p>
<p>V1 self<=7 M1 Max 7</p>	
<p>C01b04a. How many hours of electricity are available each day and night from the grid? (max 24 hours) A. WORST MONTHS Hours of supply Don't know.....888</p>	<p>NUMERIC: DECIMAL C01b04a -----</p>
<p>E C01b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12) V1 self<=24 self==888 M1 Max 24</p>	
<p>C01b04b. How many hours of electricity are available each day and night from the grid? (max 24 hours) B. TYPICAL MONTH Hours of supply Don't know.....888</p>	<p>NUMERIC: DECIMAL C01b04b -----</p>
<p>V1 self<=24 self==888 M1 Max 24 V2 (C01b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12) && self >=C01b04a) self<=24 self==888 M2 greather than or equal worst month</p>	
<p>C01b05a. How many hours of electricity are available each evening, from 6:00 pm to 10:00 pm from the grid? (max 4 hours) A. WORST MONTHS Hours of supply Don't know.....888</p>	<p>NUMERIC: DECIMAL C01b05a -----</p>
<p>E C01b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12) V1 self<=4 self==888 M1 Max 4</p>	
<p>C01b05b. How many hours of electricity are available each evening, from 6:00 pm to 10:00 pm from the grid? (max 4 hours) B. TYPICAL MONTH Hours of supply Don't know.....888</p>	<p>NUMERIC: DECIMAL C01b05b -----</p>

<p>V1 self<=4 self==888</p> <p>M1 Max 4</p> <p>V2 (C01b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12) && self >=C01b05a) self<=4 self==888</p> <p>M2 greather than or equal worst month</p>	
<p>C01b06a. How many hours of electricity do you use each day and night from the grid? Cannot exceed number of available hours in C01b04. A. WORST MONTHS Hours of supply Don't know.....888</p> <p>E C01b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12)</p> <p>V1 self<=C01b04a self==888</p> <p>M1 Less than or equal C01b04a</p>	<p>NUMERIC: DECIMAL C01b06a</p> <p>-----</p>
<p>C01b06b. How many hours of electricity do you use each day and night from the grid? Cannot exceed number of available hours in C01b04b B. TYPICAL MONTH Hours of supply Don't know.....888</p> <p>V1 self<=C01b04b self==888</p> <p>M1 Less than or equal C01b04b</p> <p>V2 (C01b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12) && self >=C01b06a) self<=C01b04b self==888</p> <p>M2 greather than or equal worst month</p>	<p>NUMERIC: DECIMAL C01b06b</p> <p>-----</p>
<p>C01b07a. How many outages/blackouts occur in a week? A. WORST MONTHS Number of outages/blackouts Don't know.....888</p> <p>E C01b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12)</p>	<p>NUMERIC: DECIMAL C01b07a</p> <p>-----</p>
<p>C01b07b. How many outages/blackouts occur in a week? B. TYPICAL MONTH Number of outages/blackouts Don't know.....888</p> <p>V1 (C01b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12) && self >=C01b07a) self>=0</p> <p>M1 greather than or equal worst month</p>	<p>NUMERIC: DECIMAL C01b07b</p> <p>-----</p>
<p>C01b08a1. What is the total duration of all the outages/blackouts in a week? A. WORST MONTHS (Hours) Don't know.....888</p> <p>E C01b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12)</p> <p>V1 self<=168 self==888</p> <p>M1 Max 168</p>	<p>NUMERIC: DECIMAL C01b08a1</p> <p>-----</p>
<p>C01b08b1. What is the total duration of all the outages/blackouts in a week? B. Typical Months (Hours) Don't know.....888</p> <p>V1 self<=168 self==888</p> <p>M1 Max 168</p> <p>V2 (C01b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12) && self >=C01b08a1) self<=168 self==888</p> <p>M2 greather than or equal worst month</p>	<p>NUMERIC: DECIMAL C01b08b1</p> <p>-----</p>

C.1 GOVT. GRID/ TOWN GRID/ BORDER GRID
C.1.C ALTERNATIVE SOURCE AND COMPLAINT MECHANISM

E C01f01.InList(1,2,3)

C01c01. What is your main back-up source of lighting during outages/blackouts of the grid?

SINGLE-SELECT C01c01

001 Local mini grid connection

002 Electric generator

	003 <input type="radio"/> Rechargeable battery and storage devices (e.g.: car battery) 004 <input type="radio"/> Solar home system 005 <input type="radio"/> Solar Lantern/ solar lighting system 006 <input type="radio"/> Pico-hydro 007 <input type="radio"/> Kerosene lamp 008 <input type="radio"/> Fuel-based lighting 009 <input type="radio"/> Dry-cell (non-rechargeable) battery/ Torch/ Flashlight 010 <input type="radio"/> Candle 555 <input type="radio"/> Other, specify 777 <input type="radio"/> No back-up source
C01c01Other. Other, Specify E C01c01==555	TEXT C01c01Other
C01c02. What is your main back-up source of electricity for appliances (including mobile phone charging) during outages/blackouts of the grid?	SINGLE-SELECT C01c02 001 <input type="radio"/> Local mini grid connection 002 <input type="radio"/> Electric generator 003 <input type="radio"/> Rechargeable battery and storage devices (e.g.: car battery) 004 <input type="radio"/> Solar home system 005 <input type="radio"/> Solar Lantern/ solar lighting system 006 <input type="radio"/> Pico-hydro 555 <input type="radio"/> Other, specify 777 <input type="radio"/> No back-up source
C01c02Other. Other, Specify E C01c02==555	TEXT C01c02Other
C01c03. How do you request for repairs in electricity service or file a complaint?	SINGLE-SELECT C01c03 001 <input type="radio"/> Call/SMS utility company 002 <input type="radio"/> Call a local technician 003 <input type="radio"/> Send a letter/email 004 <input type="radio"/> Social media 005 <input type="radio"/> Talk to community representative 006 <input type="radio"/> No system to request repairs/file complaint 007 <input type="radio"/> Doing nothing 555 <input type="radio"/> Other, specify
C01c03Other. Other, Specify E C01c03==555	TEXT C01c03Other
C01c04. When there is a blackout in your community, who do you usually approach for assistance?	SINGLE-SELECT C01c04 01 <input type="radio"/> The power company 02 <input type="radio"/> Someone not from power company 03 <input type="radio"/> No-one: we wait until power returns 04 <input type="radio"/> EPC Staff
C01c05. The last time you asked for assistance, how many days after you contacted [C01c04 response] did they come to fix the problem? Enumerator: Response can be given in hours and divided by 24 Number of days E C01c04!=3	NUMERIC: DECIMAL C01c05 -----

C.1.D PROBLEMS FACED WITH GRID CONNECTION

E C01f01.InList (1, 2, 3)

<p>C01d01. In the last 12 months, did any of your appliances get damaged because the voltage was going up and down from the grid?</p>	<p>SINGLE-SELECT C01d01 001 <input type="radio"/> Yes 002 <input type="radio"/> No 888 <input type="radio"/> Don't know</p>
<p>C01d02a. What are the most serious problems you experience with your grid electricity? Record up to 2 responses. a. First</p>	<p>SINGLE-SELECT C01d02a 001 <input type="radio"/> Supply shortage/not enough hours of electricity 002 <input type="radio"/> Low/high voltage problems or voltage fluctuations 003 <input type="radio"/> Unpredictable interruptions 004 <input type="radio"/> Unexpectedly high bill 005 <input type="radio"/> High cost of electricity 006 <input type="radio"/> Do not trust the supplier 007 <input type="radio"/> Cannot power large appliances 008 <input type="radio"/> Maintenance/service problems 009 <input type="radio"/> Unpredictable bills 555 <input type="radio"/> Other, specify, 777 <input type="radio"/> No problems</p>
<p>C01d02aOther. Other, Specify</p>	<p>TEXT C01d02aOther </p>
<p>C01d02b. What are the most serious problems you experience with your grid electricity? Record up to 2 responses. b. Second</p>	<p>SINGLE-SELECT C01d02b 001 <input type="radio"/> Supply shortage/not enough hours of electricity 002 <input type="radio"/> Low/high voltage problems or voltage fluctuations 003 <input type="radio"/> Unpredictable interruptions 004 <input type="radio"/> Unexpectedly high bills 005 <input type="radio"/> High cost of electricity 006 <input type="radio"/> Do not trust the supplier 007 <input type="radio"/> Cannot power large appliances 008 <input type="radio"/> Maintenance/service problems 009 <input type="radio"/> Unpredictable bills 555 <input type="radio"/> Other, specify 777 <input type="radio"/> No problems</p>
<p>C01d02bOther. Other, Specify</p>	<p>TEXT C01d02bOther </p>
<p>C01d03. In the last 12 months, did any household members die or have permanent limb (bodily injury) damage because of the grid electricity?</p>	<p>SINGLE-SELECT C01d03 01 <input type="radio"/> Yes 02 <input type="radio"/> No</p>

C.1.E USE OF ELECTRICITY SERVICE FROM GRID

E C01f01.InList (1, 2, 3)

<p>C01e_01. In a typical day how many of the %rostertitle% are used. Write 0 if none</p> <p>V1 self<=C2 M1 Less than or eqyal from total</p>	<p>NUMERIC: INTEGER C01e_01</p> <p>-----</p>
<p>C01e_02. What is the total sum of hours used?</p> <p>E C01e_01>=1 && (@rowcode==101 @rowcode==102 @rowcode==103 @rowcode==104 @rowcode==201 @rowcode==202 @rowcode==203 @rowcode==301 @rowcode==302 @rowcode==303 @rowcode==304 And 239 other symbols [1]</p>	<p>NUMERIC: INTEGER C01e_02</p> <p>-----</p>

C.1 GOVT. GRID/TOWN GRID/ BORDER GRID

C.1.F REASONS FOR NO GOVT. GRID CONNECTION AND EXPECTATIONS

E C01f01.InList (4, 5)

<p>C01f02. How far is your house from the nearest national grid line? Km [] Do not know... 888</p>	<p>NUMERIC: INTEGER C01f02</p> <p>-----</p>
<p>C01f03. What is the MAIN reason why your household is not connected to the grid? Record the MAIN reason.</p>	<p>SINGLE-SELECT C01f03</p> <p>001 <input type="radio"/> Grid is too far from household/not available</p> <p>002 <input type="radio"/> Cost of initial network construction too expensive</p> <p>003 <input type="radio"/> Cost of connection fee is expensive</p> <p>004 <input type="radio"/> Monthly fee is too expensive</p> <p>005 <input type="radio"/> Satisfied with current energy solution</p> <p>006 <input type="radio"/> Renting, Landlord decision</p> <p>007 <input type="radio"/> Service Unreliable</p> <p>008 <input type="radio"/> Administrative procedure is too complicated</p> <p>009 <input type="radio"/> Submitted application and waiting for connection</p> <p>010 <input type="radio"/> EPC/Township service provider refused to connect the household</p> <p>555 <input type="radio"/> Other, specify</p>
<p>C01f03Other. Other, Specify</p> <p>E C01f03==555</p>	<p>TEXT C01f03bOther</p> <p>-----</p>
<p>C01f04. Do you expect to get grid connection?</p>	<p>SINGLE-SELECT C01f04</p> <p>001 <input type="radio"/> Yes</p> <p>999 <input type="radio"/> Don't expect to get grid connection</p> <p>888 <input type="radio"/> Don't know</p>
<p>C01f05a. What month and year do you expect to get grid connection? Month Don't know..... 888 ALL RESPONSES C.94</p> <p>E C01f04==1 C01f04==888 V1 self<=12 M1 Max 12</p>	<p>SINGLE-SELECT C01f05a</p> <p>01 <input type="radio"/> January ဟနြာသို</p> <p>02 <input type="radio"/> February တပို့တပွဲ</p> <p>03 <input type="radio"/> March တပေဂြေငး</p> <p>04 <input type="radio"/> April တနဂြေ</p> <p>05 <input type="radio"/> May ကဆုနဂြ</p> <p>06 <input type="radio"/> June နယုနဂြ</p> <p>07 <input type="radio"/> July ဝဂြေဆို</p> <p>08 <input type="radio"/> August ဝဂြေခေဂြေငး</p> <p>09 <input type="radio"/> September တောဂြေသလငး</p> <p>10 <input type="radio"/> October သီတငးကပူဂြေတဂြ</p> <p>11 <input type="radio"/> November တနဂြေဆောငးဂြေမုနဂြ</p>

C01f05b. What month and year do you expect to get grid connection? Year Don't know.....888 ALL RESPONSES C.94

NUMERIC: INTEGER

C01f05b

E C01f04==1 || C01f04==888

V1 self>=2017

M1 greater than or equal 2017

C.2 USE OF ELECTRICITY SERVICE FROM MINI GRID

C02a01. Is the household connected to a mini-grid?

SINGLE-SELECT

C02a01

01 Yes

02 No

C.2 USE OF ELECTRICITY SERVICE FROM MINI GRID

C.2.A CONNECTION

E C02a01==1

C02a02. Is there a limit for the load and/or appliances you are allowed to power from this mini-grid?

SINGLE-SELECT

C02a02

001 Yes

002 No

888 Don't Know

C02a10. Who own and operate mini-grid?

SINGLE-SELECT

C02a10

001 Private company or person

002 Community organization

003 Village electrification committee

555 Others, specify

C02a10Other. Others, specify

TEXT

C02a10Other

E C02a10==555

C02a03. What is the name of the local mini-grid company?

TEXT

C02a03

C02a04. How many years have you had this mini-grid connection? Record in years, if less than 1 year record 1

NUMERIC: INTEGER

C02a04

C02a05. How much did your house pay for the mini-grid connection fee? Refer to connection cost ONLY. Local currency Don't know888 Enter 0 for no connection

NUMERIC: INTEGER

C02a05

C02a06. How much did your house pay for the internal wiring? Do not include the connection fee from C.91 here Local currency Don't know888

NUMERIC: INTEGER

C02a06

C02a07. How many weeks after you applied for the mini-grid connection did your house get connected? (Insert 0 if immediate) Number of weeks

NUMERIC: INTEGER

C02a07

C02a08. How many weeks after you were connected were you able to use electricity in your home? (Insert 0 if immediate) Number of weeks	NUMERIC: INTEGER C02a08 -----
C02a09. Have you applied for an upgrade of service since you connected to the mini-grid?	SINGLE-SELECT C02a09 01 <input type="radio"/> Yes 02 <input type="radio"/> No
C02a11. Does your house have an electric meter?	SINGLE-SELECT C02a11 01 <input type="radio"/> Yes 02 <input type="radio"/> No
C02a12. Does your house share the electric meter?	SINGLE-SELECT C02a12 01 <input type="radio"/> Yes 02 <input type="radio"/> No
E C02a11==1	
C02a13. How many house are sharing the meter? umber of Households ALL C.109	NUMERIC: INTEGER C02a13 -----
E C02a12==1	
C02a14. How are you billed for electricity? Read options aloud	SINGLE-SELECT C02a14 001 <input type="radio"/> Pay by unit as indicated by the meter 002 <input type="radio"/> Utility estimate consumption 003 <input type="radio"/> Fixed fee 004 <input type="radio"/> Pay by number of lights and appliances 005 <input type="radio"/> No bill for electricity or do not have to pay Other, specify 555 <input type="radio"/> Other, specify
C02a14Other. Other(Specify)	TEXT C02a14Other
E C02a14==555	
C02a15. What is the most common way you make your electricity bill payment?	SINGLE-SELECT C02a15 001 <input type="radio"/> Pay to Mini grid owner or operator 002 <input type="radio"/> Credits using mobile money (owner and operator) 003 <input type="radio"/> Pay to Relative /Neighbor 004 <input type="radio"/> Pay to Landlord 005 <input type="radio"/> Pay no one, do not pay 555 <input type="radio"/> Other, specify
C02a15Other. Other(Specify)	TEXT C02a15Other
E C02a15==555	
C02a16. Were you involved in setting the tariff for the mini-grid?	SINGLE-SELECT C02a16 01 <input type="radio"/> Yes 02 <input type="radio"/> No
C02a17. How were you involved in the tariff setting?	SINGLE-SELECT C02a17 001 <input type="radio"/> Community meeting 002 <input type="radio"/> Contacted by mini-grid company 003 <input type="radio"/> Member of electricity committee 004 <input type="radio"/> Member of cooperative 555 <input type="radio"/> Other, specify
E C02a16==1	

<p>C02a17Other. Others, specify</p> <p>E C02a17==555</p>	<p>TEXT</p> <p style="text-align: right;">C02a17Other</p> <p>-----</p>
<p>C02a18. Enumerator: If the respondent pays the energy company or has a record of the electricity payment, ask to see the electricity bill/invoice and use it for 0 and 0.</p>	<p>SINGLE-SELECT</p> <p style="text-align: right;">C02a18</p> <p>01 <input type="radio"/> Respondent has energy bill and shows it</p> <p>02 <input type="radio"/> Respondent has energy bill but refuses to show it or could not locate it</p> <p>03 <input type="radio"/> Respondent does not have an energy bill</p>
<p>C02a19. In the last month, how much did you spend on the electric bill? Calculate amount paid from the last bill. Local Currency Don't Know.....888</p>	<p>NUMERIC: INTEGER</p> <p style="text-align: right;">C02a19</p> <p>-----</p>
<p>C02a20. In the last month how much electricity did your house use? Calculate the consumption from the last bill. Quantity in Kilowatt Hour (kWh) Don't Know.....888</p>	<p>NUMERIC: INTEGER</p> <p style="text-align: right;">C02a20</p> <p>-----</p>

C.2 USE OF ELECTRICITY SERVICE FROM MINI GRID
C.2.B AVAILABILITY/ RELIABILITY AND QAULITY OF SERVICE

E C02a01==1

<p>C02b01. Is the quality of electricity service the same all year?</p>	<p>SINGLE-SELECT</p> <p style="text-align: right;">C02b01</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>C02b02a. In the last 12 months, (start from this month) which months have no electric service. (Multiple response)</p> <p>V1 (!self.Contains(777) && self.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12)) (self.Contains(777) && !self.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12))</p> <p>M1 if choose none, not choose other</p>	<p>MULTI-SELECT</p> <p style="text-align: right;">C02b02a</p> <p>001 <input type="checkbox"/> January (ပုဂ္ဂိုလ် - ဆောင်ရွက်)</p> <p>002 <input type="checkbox"/> February (တပို့တံ - ဆောင်ရွက်)</p> <p>003 <input type="checkbox"/> March (တပေါင်တန်း - နှစ်)</p> <p>004 <input type="checkbox"/> April (တနင်္ဂနွေ - နှစ်)</p> <p>005 <input type="checkbox"/> May (ကဆုန် - နှစ်)</p> <p>006 <input type="checkbox"/> June (နယုန် - မိုး)</p> <p>007 <input type="checkbox"/> July (ဝါဆို - မိုး)</p> <p>008 <input type="checkbox"/> August (ဝါခေါင် - မိုး)</p> <p>009 <input type="checkbox"/> September (တောသလင်း - မိုး)</p> <p>010 <input type="checkbox"/> October (သီတင်းကဏ္ဍတင် - မိုး)</p> <p>011 <input type="checkbox"/> November (တနင်္ဆောင်ရွက် - ဆောင်ရွက်)</p> <p>012 <input type="checkbox"/> December (နတ်တောင် - ဆောင်ရွက်)</p> <p>777 <input type="checkbox"/> None</p>
<p>C02b02b. In the last 12 months, (start from this month) which months have the worst electric service. (Multiple response)</p> <p>V1 ((C02b02a.Contains(1) && !C02b02b.Contains(1)) (!C02b02a.Contains(1) && C02b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14,777))) && ((C02b02a.Contains(2) && !C02b02b.Contains(2)) (!C02b02a And 1770 other symbols f21))</p> <p>M1 not equal no services</p> <p>V2 (!self.Contains(777) && self.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14)) (self.Contains(777) && !self.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14))</p> <p>M2 if choose none, not choose other</p>	<p>MULTI-SELECT</p> <p style="text-align: right;">C02b02b</p> <p>001 <input type="checkbox"/> January (ပုဂ္ဂိုလ် - ဆောင်ရွက်)</p> <p>002 <input type="checkbox"/> February (တပို့တံ - ဆောင်ရွက်)</p> <p>003 <input type="checkbox"/> March (တပေါင်တန်း - နှစ်)</p> <p>004 <input type="checkbox"/> April (တနင်္ဂနွေ - နှစ်)</p> <p>005 <input type="checkbox"/> May (ကဆုန် - နှစ်)</p> <p>006 <input type="checkbox"/> June (နယုန် - မိုး)</p> <p>007 <input type="checkbox"/> July (ဝါဆို - မိုး)</p> <p>008 <input type="checkbox"/> August (ဝါခေါင် - မိုး)</p> <p>009 <input type="checkbox"/> September (တောသလင်း - မိုး)</p> <p>010 <input type="checkbox"/> October (သီတင်းကဏ္ဍတင် - မိုး)</p> <p>011 <input type="checkbox"/> November (တနင်္ဆောင်ရွက် - ဆောင်ရွက်)</p> <p>012 <input type="checkbox"/> December (နတ်တောင် - ဆောင်ရွက်)</p>

STATIC TEXT

Ask respondent first about the worst months and then about a typical month for C.117- C.122 If no seasonal changes, ask only about a typical month. Ask questions by ROW. A. WORST MONTHS B. TYPICAL MONTH

<p>C02b03a1. Do you receive information about a “load-shedding” schedule (load shedding is the set hours of electricity available from the mini grid)? A. WORST MONTHS</p> <p>E C02b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12)</p>	<p>SINGLE-SELECT C02b03a1</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>C02b03a2. Do you receive information about a “load-shedding” schedule (load shedding is the set hours of electricity available from the mini grid)? B. TYPICAL OR OK MONTH</p>	<p>SINGLE-SELECT C02b03a2</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>C02b03b1. How many days a week you receive electricity from the mini grid. A. WORST MONTHS Days per week _____ (Max 7)</p> <p>E C02b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12)</p> <p>V1 self<=7</p> <p>M1 Max 7</p>	<p>NUMERIC: INTEGER C02b03b1</p> <p>-----</p>
<p>C02b03b2. How many days a week you receive electricity from the mini grid. B. TYPICAL OR OK MONTH Days per week _____ (Max 7)</p> <p>V1 self<=7</p> <p>M1 Max 7</p> <p>V2 (C02b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12) && self >=C02b03b1) self<=7</p> <p>M2 greather than or equal worst month</p>	<p>NUMERIC: INTEGER C02b03b2</p> <p>-----</p>
<p>C02b04a. How many hours of electricity are available each day and night from the mini-grid? (max 24 hours) A. WORST MONTHS Hours of supply Don't know.....888</p> <p>E C02b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12)</p> <p>V1 self<=24 self==888</p> <p>M1 Max 24</p>	<p>NUMERIC: DECIMAL C02b04a</p> <p>-----</p>
<p>C02b04b. How many hours of electricity are available each day and night from the mini-grid? (max 24 hours) B. TYPICAL MONTH Hours of supply Don't know.....888</p> <p>V1 self<=24 self==888</p> <p>M1 Max 24</p> <p>V2 (C02b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12) && self >=C02b04a) self<=24 self==888</p> <p>M2 greather than or equal worst month</p>	<p>NUMERIC: DECIMAL C02b04b</p> <p>-----</p>
<p>C02b05a. How many hours of electricity are available each evening, from 6:00 pm to 10:00 pm from the mini-grid? (max 4 hours) A. WORST MONTHS Hours of supply Don't know.....888</p> <p>E C02b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12)</p> <p>V1 self<=4 self==888</p> <p>M1 Max 4</p>	<p>NUMERIC: DECIMAL C02b05a</p> <p>-----</p>
<p>C02b05b. How many hours of electricity are available each evening, from 6:00 pm to 10:00</p>	<p>NUMERIC: DECIMAL C02b05b</p> <p>-----</p>

<p>pm from the mini-grid? (max 4 hours) B. TYPICAL MONTH Hours of supply Don't know.....888</p> <p>V1 self<=4 self==888</p> <p>M1 Max 4</p> <p>V2 (C02b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12) && self >=C02b05a) self<=4 self==888</p> <p>M2 greather than or equal worst month</p>	
<p>C02b06a. How many hours of electricity do you use each day from the mini-grid? Cannot exceed number of available hours in C.111 A. WORST MONTHS Hours of supply Don't know.....888</p> <p>E C02b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12)</p> <p>V1 self<=C02b04a self==888</p> <p>M1 Less than or equal C118a</p>	<p>NUMERIC: DECIMAL C02b06a</p> <p>-----</p>
<p>C02b06b. How many hours of electricity do you use each day from the mini-grid? Cannot exceed number of available hours in C.111 B. TYPICAL MONTH Hours of supply Don't know.....888</p> <p>V1 self<=C02b04b self==888</p> <p>M1 Less than or equal C118b</p> <p>V2 (C02b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12) && self >=C02b06a) self<=C02b04b self==888</p> <p>M2 greather than or equal worst month</p>	<p>NUMERIC: DECIMAL C02b06b</p> <p>-----</p>
<p>C02b07a. How many outages/blackouts occur in a week? A. WORST MONTHS Number of outages/blackouts Don't know.....888</p> <p>E C02b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12)</p>	<p>NUMERIC: DECIMAL C02b07a</p> <p>-----</p>
<p>C02b07b. How many outages/blackouts occur in a week? B. TYPICAL MONTH Number of outages/blackouts Don't know.....888</p> <p>V1 (C02b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12) && self <=C02b07a) self>=0</p> <p>M1 greather than or equal worst month</p>	<p>NUMERIC: DECIMAL C02b07b</p> <p>-----</p>
<p>C02b08a1. What is the total duration of all the outages/blackouts in a week? A. WORST MONTHS a. Hours Don't know.....888</p> <p>E C02b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12)</p> <p>V1 self<=168 self==888</p> <p>M1 Max 168</p>	<p>NUMERIC: DECIMAL C02b08a1</p> <p>-----</p>
<p>C02b08b1. What is the total duration of all the outages/blackouts in a week? A. Typical MONTHS a. Hours Don't know.....888</p> <p>V1 self<=168 self==888</p> <p>M1 Max 168</p> <p>V2 (C02b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12) && self >=C02b08a1) self<=168 self==888</p> <p>M2 greather than or equal worst month</p>	<p>NUMERIC: DECIMAL C02b08b1</p> <p>-----</p>

C.2 USE OF ELECTRICITY SERVICE FROM MINI GRID
C.2.C ALTERNATIVE SOURCE AND COMPLAINT MECHANISM

E C02a01==1

C02c01. What is your main back-up source of lighting during outages/blackouts of the grid?	<p>SINGLE-SELECT C02c01</p> <p>001 <input type="radio"/> National grid</p> <p>002 <input type="radio"/> Border/Thai grid</p> <p>003 <input type="radio"/> Township own grid</p> <p>004 <input type="radio"/> Electric generator</p> <p>005 <input type="radio"/> Rechargeable battery and storage devices (e.g.: car battery)</p> <p>006 <input type="radio"/> Solar home system</p> <p>007 <input type="radio"/> Solar Lantern/ solar lighting system</p> <p>008 <input type="radio"/> Pico-hydro</p> <p>009 <input type="radio"/> Kerosene lamp</p> <p>010 <input type="radio"/> Fuel-based lighting</p> <p>011 <input type="radio"/> Dry-cell (non-rechargeable) battery/ Torch/ Flashlight</p> <p>012 <input type="radio"/> Candle</p> <p>555 <input type="radio"/> Other, specify</p> <p>777 <input type="radio"/> No back-up source</p>
C02c01Other. Others, specify	TEXT C02c01Other
E C02c01==555
C02c02. What is your main back-up source of electricity for appliances during outages/blackouts of the mini-grid?	<p>SINGLE-SELECT C02c02</p> <p>001 <input type="radio"/> Electric generator</p> <p>002 <input type="radio"/> Rechargeable battery and storage devices (e.g.: car battery)</p> <p>003 <input type="radio"/> Solar Home System</p> <p>004 <input type="radio"/> Solar Lantern/Lighting system</p> <p>005 <input type="radio"/> Pico-hydro</p> <p>555 <input type="radio"/> Other, specify</p> <p>777 <input type="radio"/> No back-up source</p>
C02C02Other. Others, specify	TEXT C02C02Other
E C02c02==555
C02c03. How do you request for repairs in electricity service or file a complaint?	<p>SINGLE-SELECT C02c03</p> <p>001 <input type="radio"/> Call/SMS mini-grid operator</p> <p>002 <input type="radio"/> Call a local technician</p> <p>003 <input type="radio"/> Send a letter/email</p> <p>004 <input type="radio"/> Social media</p> <p>005 <input type="radio"/> Talk to community representative</p> <p>006 <input type="radio"/> No system to request repairs/file complaint</p> <p>555 <input type="radio"/> Other, specify</p>
C02c03Other. Others, specify	TEXT C02c03Other
E C02c03==555
C02c04. When there is a blackout in your community, who do you usually approach for assistance?	<p>SINGLE-SELECT C02c04</p> <p>01 <input type="radio"/> The power company</p> <p>02 <input type="radio"/> Someone not from power company</p> <p>03 <input type="radio"/> No-one: we wait until power returns</p>
C02c05. TThe last time you asked for assistance, how many days after you contacted [C02c04 response] did they come to fix the problem? Number of days Don't know.....888	NUMERIC: DECIMAL C02c05

E C02c04!=3

C.2 USE OF ELECTRICITY SERVICE FROM MINI GRID
C.2.D PROBLEMS FACED WITH MINI GRID CONNECTION

E C02a01==1

C02d01. In the last 12 months, did any of your appliances get damaged because the voltage was going up and down from the mini grid?	<p>SINGLE-SELECT C02d01</p> <p>001 <input type="radio"/> Yes</p> <p>002 <input type="radio"/> No</p> <p>888 <input type="radio"/> Don't know</p>
---	---

C02d02a. What are the most serious problems you experience with your mini grid electricity? Record up to 2 responses. a. First	<p>SINGLE-SELECT C02d02a</p> <p>001 <input type="radio"/> Supply shortage/not enough hours of electricity</p> <p>002 <input type="radio"/> Low/high voltage problems or voltage fluctuations</p> <p>003 <input type="radio"/> Unpredictable interruptions</p> <p>004 <input type="radio"/> Unexpectedly high bills</p> <p>005 <input type="radio"/> Too expensive</p> <p>006 <input type="radio"/> Do not trust the supplier</p> <p>007 <input type="radio"/> Cannot power large appliances</p> <p>008 <input type="radio"/> Maintenance/service problems</p> <p>009 <input type="radio"/> Unpredictable bills</p> <p>555 <input type="radio"/> Other, specify</p> <p>777 <input type="radio"/> No problems</p>
--	--

C02d02aOther. Others, specify	<p>TEXT C02d02aOther</p> <p>.....</p>
-------------------------------	--

E C02d02a==555

C02d02b. What are the most serious problems you experience with your grid electricity? Record up to 2 responses. b. Second	<p>SINGLE-SELECT C02d02b</p> <p>001 <input type="radio"/> Supply shortage/not enough hours of electricity</p> <p>002 <input type="radio"/> Low/high voltage problems or voltage fluctuations</p> <p>003 <input type="radio"/> Unpredictable interruptions</p> <p>004 <input type="radio"/> Unexpectedly high bills</p> <p>005 <input type="radio"/> Too expensive</p> <p>006 <input type="radio"/> Do not trust the supplier</p> <p>007 <input type="radio"/> Cannot power large appliances</p> <p>008 <input type="radio"/> Maintenance/service problems</p> <p>009 <input type="radio"/> Unpredictable bills</p> <p>555 <input type="radio"/> Other, specify</p> <p>111 <input type="radio"/> No problems</p>
--	--

E C02d02a!=111

Others, specify	<p>TEXT C02d02b_Other</p> <p>.....</p>
-----------------	---

E C02d02b==555

C02d03. In the last 12 months, did any household members die or have permanent limb (bodily injury) damage because of the mini grid electricity?	<p>SINGLE-SELECT C02d03</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
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C.2 USE OF ELECTRICITY SERVICE FROM MINI GRID
C.2.E USE OF ELECTRICITY SERVICE FROM MINI GRID

E C02a01==1

<p>C02e_01. In a typical day how many of the %rostertitle% are used. Write 0 if none</p> <p>V1 self<=C2 M1 Less than or equal total</p>	<p>NUMERIC: INTEGER C02e_01</p> <p>-----</p>
<p>C02e_02. What is the total sum of hours used?</p> <p>E C02e_01>=1 && (@rowcode==101 @rowcode==102 @rowcode==103 @rowcode==104 @rowcode==201 @rowcode==202 @rowcode==203 @rowcode==301 @rowcode==302 @rowcode==303 @rowcode==304 And 239 other symbols [2]</p>	<p>NUMERIC: INTEGER C02e_02</p> <p>-----</p>

C.3 USE OF ELECTRICITY FROM ELECTRIC GENERATOR SET

<p>C03a01. In the last 12 months, did the household use a generator to supply electricity?</p>	<p>SINGLE-SELECT C03a01</p> <p>01 <input type="radio"/> Yes 02 <input type="radio"/> No</p>
<p>C03a02. If yes,do you use it for back up for the main grid?</p> <p>E C03a01==1 && C01f01.InList(1,2,3,4) V1 self!=1 (self==1 && (C01f01==2 C01f01==1 C01f01==3 C01f01==4)) M1 Check backup source from main grid</p>	<p>SINGLE-SELECT C03a02</p> <p>001 <input type="radio"/> Yes 002 <input type="radio"/> No 888 <input type="radio"/> Don't know</p>

C.3 USE OF ELECTRICITY FROM ELECTRIC GENERATOR SET
C.3.A USAGE

E C03a01==1

<p>C03a03. Do you share this generator with other house?</p>	<p>SINGLE-SELECT C03a03</p> <p>01 <input type="radio"/> Yes 02 <input type="radio"/> No</p>
<p>C03a04. How many house are sharing electricity from this generator? Number of house Don't know.....888</p> <p>E C03a03==1</p>	<p>NUMERIC: INTEGER C03a04</p> <p>-----</p>
<p>C03a05. Enumerator Observation: What is the capacity of the generator? Read name plate of the generator. Volt Amps (kVA) Don't know.....888</p>	<p>NUMERIC: DECIMAL C03a05</p> <p>-----</p>
<p>C03a06. In the last 12 months, in which months did you use this generator or did you use it all year? Multiple responses possible</p>	<p>MULTI-SELECT C03a06</p> <p>01 <input type="checkbox"/> January (ဇန်နဝါရီလ - ဆောင်းရာသီ) 02 <input type="checkbox"/> February (ဖေဖော်ဝါရီလ - ဆောင်းရာသီ) 03 <input type="checkbox"/> March (မတ်လ - နွေရာသီ) 04 <input type="checkbox"/> April (ဧပြီလ - နွေရာသီ) 05 <input type="checkbox"/> May (မေလ - နွေရာသီ) 06 <input type="checkbox"/> June (ဇွန်လ - မိုးရာသီ) 07 <input type="checkbox"/> July (ဇူလိုင်လ - မိုးရာသီ) 08 <input type="checkbox"/> August (အဂတ်လ - မိုးရာသီ) 09 <input type="checkbox"/> September (စက်တင်ဘာလ - မိုးရာသီ) 10 <input type="checkbox"/> October (အောက်တိုဘာလ - မိုးရာသီ) 11 <input type="checkbox"/> November (နိုဝင်ဘာလ - ဆောင်းရာသီ)</p>

- 12 December (နတ်ပွဲတော် - ဆောင်ပွဲ)
- 13 All year round

<p>C03a07a. How many days per month did you typically use this generator? Number of days Don't know 888</p> <p>V1 self<=30 M1 Max 30</p>	<p>NUMERIC: INTEGER C03a07a</p> <p>-----</p>
<p>C03a07b. How many hours per day do you use the generator?</p> <p>V1 self<=24 M1 Max 24</p>	<p>NUMERIC: INTEGER C03a07b</p> <p>-----</p>
<p>C03a08. In the last 12 months, what did your house use this generator for? Multiple responses possible</p>	<p>MULTI-SELECT C03a08</p> <p>001 <input type="checkbox"/> Lighting</p> <p>002 <input type="checkbox"/> Appliances</p> <p>003 <input type="checkbox"/> Home-based income activity</p> <p>555 <input type="checkbox"/> Other, specify</p> <p>888 <input type="checkbox"/> Don't know</p>
<p>C03a08Other. Other, Specify</p> <p>E C03a08.Contains (555)</p>	<p>TEXT C03a08Other</p> <p>-----</p>
<p>C03a09. How many years have you used this generator? Record in years, if less than 1 year record 1 Number of Years Don't know.....888</p>	<p>NUMERIC: INTEGER C03a09</p> <p>-----</p>

C.3 USE OF ELECTRICITY FROM ELECTRIC GENERATOR SET
C.3.B OWN OR RENT

E C03a01==1

<p>C03b01. Does your household own the generator?</p>	<p>SINGLE-SELECT C03b01</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>C03b02. Who owns the generator?</p> <p>E C03b01==2</p>	<p>SINGLE-SELECT C03b02</p> <p>001 <input type="radio"/> Other Household</p> <p>002 <input type="radio"/> Community organization</p> <p>003 <input type="radio"/> Private person/entity</p> <p>555 <input type="radio"/> Other, specify</p> <p>888 <input type="radio"/> Don't know</p>
<p>C03b02Other. Other, Specify</p> <p>E C03b02==555</p>	<p>TEXT C03b02Other</p> <p>-----</p>
<p>C03b03. Do you rent the generator or use it for free?</p> <p>E C03b01==2</p>	<p>SINGLE-SELECT C03b03</p> <p>01 <input type="radio"/> Rent</p> <p>02 <input type="radio"/> Use for free</p>
<p>C03b04. How do you pay for electricity services from the generator?</p> <p>E C03b01==2</p>	<p>SINGLE-SELECT C03b04</p> <p>001 <input type="radio"/> Fixed payment (per month or week)</p> <p>002 <input type="radio"/> Charge by number of lights/appliances</p> <p>003 <input type="radio"/> Charge per kWh</p> <p>004 <input type="radio"/> Pay for fuel only</p>

	005 <input type="radio"/> No need to pay 555 <input type="radio"/> Other, specify
C03b04Other. Other, Specify E C03b04==555	TEXT C03b04Other
C03b05. In the months that you use it, how much did you pay to use the generator each month? Do not include any cost of fuel, only fee for using the GENERATOR. Local currency Don't know.....888 ALL C.204 E C03b03==1 && C03b04!=4	NUMERIC: INTEGER C03b05 -----
C03b06. How much did you pay to purchase the generator? Local currency Don't know.....888 ALL C.204 E C03b01==1	NUMERIC: INTEGER C03b06 -----
C03b07. In the last 12 months, how much did you pay for repairs/parts/maintenance of the generator? Local currency Don't know.....888 ALL C.204	NUMERIC: INTEGER C03b07 -----
C03b08. What fuel is used to power the generator?	SINGLE-SELECT C03b08 001 <input type="radio"/> Diesel 002 <input type="radio"/> Gasoline 555 <input type="radio"/> Other, specify 888 <input type="radio"/> Don't know
C03b08Other. Other, Specify E C03b08==555	TEXT C03b08Other
C03b09a. In the month that you use, what was the total quantity of fuel used to power the generator? a. Amount _ _ _ Don't know.....888	NUMERIC: DECIMAL C03b09a -----
C03b09b. In the month that you use, what was the total quantity of fuel used to power the generator? b. Unit E C03b09a>0 C03b09a!=888	SINGLE-SELECT C03b09b 001 <input type="radio"/> Liters 002 <input type="radio"/> Gallons 888 <input type="radio"/> Don't know
C03b10. Do you pay for the fuel used to power the generator?	SINGLE-SELECT C03b10 01 <input type="radio"/> Yes 02 <input type="radio"/> No
C03b11. In the month that you use how much did your household spend on fuel for this generator? Local currency Don't know.....888 E C03b10==1	NUMERIC: INTEGER C03b11 -----
C03b12. Is the generator the household's main source of electricity?	SINGLE-SELECT C03b12 01 <input type="radio"/> Yes 02 <input type="radio"/> No

C.3 USE OF ELECTRICITY FROM ELECTRIC GENERATOR SET
C.3.C FUEL FOR GENERATOR

E C03a01==1

<p>C03c01. Are there certain months/seasons of the year when less fuel is available to power the generator?</p>	<p>SINGLE-SELECT C03c01</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>C03c02. What are the worst months of fuel availability for the generator? Multiple responses are possible.</p> <p>E C03c01==1</p> <p>V1 (!self.Contains(777) && self.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13)) (self.Contains(777) && !self.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13))</p> <p>M1 if choose none, not choose other</p>	<p>MULTI-SELECT C03c02</p> <p>001 <input type="checkbox"/> January (ပုဏ္ဏားလိမ္မော် - ဆောင်း)</p> <p>002 <input type="checkbox"/> February (တပို့တံ့ - ဆောင်း)</p> <p>003 <input type="checkbox"/> March (တပေါင်လင်း - နွေ)</p> <p>004 <input type="checkbox"/> April (တနင်္ဂနွေ - နွေ)</p> <p>005 <input type="checkbox"/> May (ကဆုန် - နွေ)</p> <p>006 <input type="checkbox"/> June (နယုန် - မိုး)</p> <p>007 <input type="checkbox"/> July (ဝါဆို - မိုး)</p> <p>008 <input type="checkbox"/> August (ဝါခေါင် - မိုး)</p> <p>009 <input type="checkbox"/> September (တောသလင်း - မိုး)</p> <p>010 <input type="checkbox"/> October (သီတင်းကုန်း - မိုး)</p> <p>011 <input type="checkbox"/> November (တနင်္ဆာ - ဆောင်း)</p> <p>012 <input type="checkbox"/> December (နတ်တော် - ဆောင်း)</p> <p>013 <input type="checkbox"/> Used all year</p> <p>777 <input type="checkbox"/> None</p>

STATIC TEXT

Ask respondent first about the worst months and then about a typical month for C.211-C.213 If no seasonal changes (C.209) or not the main source (C.208) ask only about a typical month. Ask questions by ROW. A. WORST MONTHS B. TYPICAL MONTH

<p>C03c03a. How many hours could you use this generator each day and night if you wanted to? (max 24 hours) A. WORST MONTHS Hours of supply Don't know.....888</p> <p>E C03c02.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13)</p> <p>V1 self<=24 self==888</p> <p>M1 Max 24</p>	<p>NUMERIC: DECIMAL C03c03a</p> <p>-----</p>
<p>C03c03b. How many hours could you use this generator each day and night if you wanted to? (max 24 hours) B. TYPICAL MONTH Hours of supply Don't know.....888</p> <p>V1 self<=24 self==888</p> <p>M1 Max 24</p> <p>V2 (C03c02.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13) && self>=C03c03a) self<=24 self==888</p> <p>M2 greater than or equal worst month</p>	<p>NUMERIC: DECIMAL C03c03b</p> <p>-----</p>
<p>C03c04a. How many hours could you use this generator each evening, from 6:00 pm to 10:00 pm if you wanted to? (max 4 hours) A. WORST MONTHS Hours of supply Don't know.....888</p> <p>E C03c02.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13)</p> <p>V1 self<=4 self==888</p> <p>M1 Max 4</p>	<p>NUMERIC: DECIMAL C03c04a</p> <p>-----</p>
<p>C03c04b. How many hours could you use this generator each evening, from 6:00 pm to 10:00 pm if you wanted to? (max 4 hours) B. TYPICAL MONTH Hours of supply Don't know.....888</p> <p>V1 self<=4 self==888</p> <p>M1 Max 4</p> <p>V2 (C03c02.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13) && self>=C03c04a) self<=4 self==888</p>	<p>NUMERIC: DECIMAL C03c04b</p> <p>-----</p>

<p>M2 greather than or equal worst month</p> <p>C03c05a. How many hours do you actually use this generator each day? (Cannot be more than C03c03) A. WORST MONTHS Hours of supply Don't know.....888</p> <p>E C03c02.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13)</p> <p>V1 self<=C03c03a self==888</p> <p>M1 Less than or equal C03c03a</p>	<p>NUMERIC: DECIMAL C03c05a</p> <p>-----</p>
<p>C03c05b. How many hours do you actually use this generator each day? (Cannot be more than C03c03) B. TYPICAL MONTH Hours of supply Don't know.....888</p> <p>V1 self<=C03c03b self==888</p> <p>M1 Less than or equal C03c03b</p> <p>V2 (C03c02.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13) && self>=C03c05a) self<=C03c03b self==888</p> <p>M2 greather than or equal worst month</p>	<p>NUMERIC: DECIMAL C03c05b</p> <p>-----</p>

C.3 USE OF ELECTRICITY FROM ELECTRIC GENERATOR SET
C.3.D PROBLEMS FACED WITH GENERATOR

E C03a01==1

<p>C03d01. In the last 12 months, did any of your appliances get damaged because the voltage was going up and down from the generator?</p>	<p>SINGLE-SELECT C03d01</p> <p>001 <input type="radio"/> Yes</p> <p>002 <input type="radio"/> No</p> <p>888 <input type="radio"/> Don't know</p>
<p>C03d02a. What are the most serious problems you experience with the generator? Record up to 2 responses. a. First</p>	<p>SINGLE-SELECT C03d02a</p> <p>001 <input type="radio"/> Limited power supply</p> <p>002 <input type="radio"/> Cannot power large appliances</p> <p>003 <input type="radio"/> Too expensive to use (including high cost of fuel/rent)</p> <p>004 <input type="radio"/> Availability of the fuel</p> <p>005 <input type="radio"/> Hard to maintain/service</p> <p>006 <input type="radio"/> Loud/Noisy</p> <p>007 <input type="radio"/> Unpredictable interruptions</p> <p>008 <input type="radio"/> Electricity generated from gen set damages appliances</p> <p>555 <input type="radio"/> Other, specify</p> <p>777 <input type="radio"/> No problems</p>
<p>C03d02aOther. Other, Specify</p> <p>E C03d02a==555</p>	<p>TEXT C03d02aOther</p> <p>-----</p>
<p>C03d02b. What are the most serious problems you experience with the generator? Record up to 2 responses. b. Second</p> <p>E C03d02a!=111</p>	<p>SINGLE-SELECT C03d02b</p> <p>001 <input type="radio"/> Limited power supply</p> <p>002 <input type="radio"/> Cannot power large appliances</p> <p>003 <input type="radio"/> Too expensive to use (including high cost of fuel/rent)</p> <p>004 <input type="radio"/> Availability of the fuel</p> <p>005 <input type="radio"/> Hard to maintain/service</p> <p>006 <input type="radio"/> Loud/Noisy</p> <p>007 <input type="radio"/> Unpredictable interruptions</p> <p>008 <input type="radio"/> Electricity generated from gen set damages appliances</p> <p>555 <input type="radio"/> Other, specify</p> <p>777 <input type="radio"/> No problems</p>

C03d02bOther. Other, Specify	TEXT C03d02bOther
E C03d02b==555	C03d02bOther
C03d03. In the last 12 months, did any household members die or have permanent limb (bodily injury) damage because of the generator?	SINGLE-SELECT C03d03 001 <input type="radio"/> Yes 002 <input type="radio"/> No 888 <input type="radio"/> Don't know

C.3 USE OF ELECTRICITY FROM ELECTRIC GENERATOR SET
C.3.E USE OF ELECTRICITY SERVICE FROM GENERATOR SET

E C03a01==1	C03a01==1
C.3 USE OF ELECTRICITY FROM ELECTRIC GENERATOR SET / C.3.E USE OF ELECTRICITY SERVICE FROM GENERATOR SET Roster: ELECTRICITY USE FROM GENERATOR SET generated by multi-select question C1	
C03e_01. In a typical day how many of the %rostertitle% are used. Write 0 if none	NUMERIC: INTEGER C03e_01 -----
V1 self<=C2 M1 Less than or equal total	C03e_01
C03e_02. What is the total sum of hours used?	NUMERIC: INTEGER C03e_02 -----
E C03e_01>=1 && (@rowcode==101 @rowcode==102 @rowcode==103 @rowcode==104 @rowcode==201 @rowcode==202 @rowcode==203 @rowcode==301 @rowcode==302 @rowcode==303 @rowcode==304 And 239 other symbols [3]	C03e_02

C.4 USE OF EXTERNALLY RECHARGED BATTERY

STATIC TEXT

Externally Recharged Battery (Car Battery) Instruction: Not include battery which is part of solar home system.

C04a01. In the last 12 months, did the household use any rechargeable batteries, such as car batteries, for electricity?	SINGLE-SELECT C04a01 01 <input type="radio"/> Yes 02 <input type="radio"/> No
C04a03. Do you use it for back up for the main or mini grid?	SINGLE-SELECT C04a03 01 <input type="radio"/> Yes 02 <input type="radio"/> No
E C04a01==1 && C01f01.InList (1,2,3,4)	C04a03

C.4 USE OF EXTERNALLY RECHARGED BATTERY
C.4.A USAGE

E C04a01==1	C04a01==1
C04a02. Did the household use invrter with that battery?	SINGLE-SELECT C04a02 01 <input type="radio"/> Yes 02 <input type="radio"/> No
C04a04. In the last 12 months, in which months did you use rechargeable batteries or did you use it all year? Multiple responses possible	MULTI-SELECT C04a04 01 <input type="checkbox"/> January (ပုဏ္ဏားလိူဝ်း - ဆေဝါငါး) 02 <input type="checkbox"/> February (တပို့တံး - ဆေဝါငါး) 03 <input type="checkbox"/> March (တပေဝါငါး - ရံး) 04 <input type="checkbox"/> April (တနီရံး - ရံး)

- 05 May (ကဆုန် - မိုး)
- 06 June (နယုန် - မိုး)
- 07 July (ဝါဆို - မိုး)
- 08 August (ဝါခေါင် - မိုး)
- 09 September (တောလင်း - မိုး)
- 10 October (သီတင်းကျွတ် - မိုး)
- 11 November (တနင်္လာနေ့ - ဆောင်း)
- 12 December (နတ်တော် - ဆောင်း)
- 13 Used all year

C04a05. In the last 12 months, what did your household use rechargeable batteries for?
Multiple responses possible

- MULTI-SELECT C04a05
- 001 Lighting
 - 002 Appliances
 - 003 Home-based income activity
 - 555 Other, specify

C04a05Other. Other, Specify

TEXT C04a05Other

.....

E C04a05.Contains (555)

C04a06. What is the total number of rechargeable batteries that you use in a typical month? Don't know.....888

NUMERIC: INTEGER C04a06

V1 self>0
M1 Cannot be 0

C.4 USE OF EXTERNALLY RECHARGED BATTERY
C.4.B BATTERY SPEC AND RECHARGING

E C04a01=1

C.4 USE OF EXTERNALLY RECHARGED BATTERY / C.4.B BATTERY SPEC AND RECHARGING
Roster: C4B. ASK FOR EACH BATTERY USING REGULARLY
generated by numeric question C04a06

C4B_BatterySpecRecharge

E C04a06>0

C04b01. Bought new or used

- SINGLE-SELECT C04b01
- 01 New
 - 02 Used

C04b02. Capacity ____ Amp-Hrs

NUMERIC: INTEGER C04b02

C04b03. Voltage ____ Volts

NUMERIC: INTEGER C04b03

C04b04. Cost of battery ____ Kyats

NUMERIC: INTEGER C04b04

C04b05. Number of recharge per month ____ Volts

NUMERIC: INTEGER C04b05

C04b06. Cost per recharge ____ Kyats

NUMERIC: INTEGER C04b06

C04b07. What is the average monthly expenditure on recharging batteries in a typical month? _____ Kyats per month

NUMERIC: INTEGER C04b07

<p>C04b08. What is the electricity source used to recharge the battery? Single response</p> <p>I Instruction: Not include battery which is part of solar home system.</p>	<p>SINGLE-SELECT C04b08</p> <p>001 <input type="radio"/> National grid</p> <p>002 <input type="radio"/> Border or Thai grid</p> <p>003 <input type="radio"/> Township own grid</p> <p>004 <input type="radio"/> Minigrid connection</p> <p>005 <input type="radio"/> Electric generator</p> <p>006 <input type="radio"/> Solar or Solar battery charging station (Not same as solar home system)</p> <p>555 <input type="radio"/> Other, specify</p>
<p>C04b08Other. Other, Specify</p> <p>E C04b08==555</p>	<p>TEXT C04b08Other</p> <p>-----</p>
<p>C04b09. Is battery recharging limited by availability of electricity from [SOURCE FROM C04b08]</p>	<p>SINGLE-SELECT C04b09</p> <p>001 <input type="radio"/> Yes</p> <p>002 <input type="radio"/> No</p> <p>888 <input type="radio"/> Don't know</p>
<p>C04b10. How many hours can you use rechargeable batteries for electricity supply each day when fully charged if you wanted to? _____ Hours per day</p> <p>I Instruction: If cannot provide answer, ask if the battery is new, how many hours can it be used?</p> <p>V1 self<=24</p> <p>M1 Max 24</p>	<p>NUMERIC: INTEGER C04b10</p> <p>-----</p>
<p>C04b11. How many hours do you actually use rechargeable batteries for electricity supply each day? _____ Hours per day</p> <p>I Instruction: If cannot provide answer, ask if the battery is old, how many hours can it be used?</p> <p>V1 self<=C04b10</p> <p>M1 Less than or equal C04b10</p>	<p>NUMERIC: INTEGER C04b11</p> <p>-----</p>

C.4 USE OF EXTERNALLY RECHARGED BATTERY
C.4.C PROBLEMS WITH BATTERIES

E C04a01==1

<p>C04c01a. What are the most serious problems you experience with the rechargeable batteries? Record up to 2 responses. a. First</p>	<p>SINGLE-SELECT C04c01a</p> <p>001 <input type="radio"/> Supply shortage/not enough hours of electricity</p> <p>002 <input type="radio"/> Too expensive</p> <p>003 <input type="radio"/> Cannot power large appliances</p> <p>004 <input type="radio"/> Recharging is not convenient</p> <p>005 <input type="radio"/> Maintenance & repair is difficult</p> <p>006 <input type="radio"/> Cannot recharge battery to full capacity</p> <p>555 <input type="radio"/> Other, specify</p> <p>777 <input type="radio"/> No problems</p>
<p>C04c01aOther. Other, Specify</p> <p>E C04c01a==555</p>	<p>TEXT C04c01aOther</p> <p>-----</p>
<p>C04c01b. What are the most serious problems you experience with the rechargeable batteries? Record up to 2 responses. b. Second</p>	<p>SINGLE-SELECT C04c01b</p> <p>001 <input type="radio"/> Supply shortage/not enough hours of electricity</p> <p>002 <input type="radio"/> Too expensive</p>

E C04c01a!=111	003 <input type="radio"/> Cannot power large appliances 004 <input type="radio"/> Recharging is not convenient 005 <input type="radio"/> Maintenance & repair is difficult 006 <input type="radio"/> Cannot recharge battery to full capacity 555 <input type="radio"/> Other, specify 777 <input type="radio"/> No problems
C04c01bOther. Other, Specify	TEXT C04c01bOther
E C04c01b==555
C04c02. How many months did your previous battery last? If don't known ..888	NUMERIC: INTEGER C04c02

C.4 USE OF EXTERNALLY RECHARGED BATTERY

C.4.D USE OF ELECTRICITY SERVICE FROM RECHARGABLE BATTERY

E C04a01==1

C.4 USE OF EXTERNALLY RECHARGED BATTERY / C.4.D USE OF ELECTRICITY SERVICE FROM RECHARGABLE BATTERY

Roster: ELECTRICITY USE FROM RECHARGABLE BATTERY

generated by multi-select question C1

C4D_UseElectricityRechBattery

C04d_01. In a typical day how many of the %rostertitle% are used. Write 0 if none	NUMERIC: INTEGER C04d_01
E @rowcode==101 @rowcode==102 @rowcode==103 @rowcode==104 @rowcode==201 @rowcode==202 @rowcode==203 @rowcode==301 @rowcode==302 @rowcode==303 @rowcode==304 @rowcode==305 And 357 other symbols [4]	-----
V1 self<=C2	
M1 Less than or equal total	
C04d_02. What is the total sum of hours used?	NUMERIC: INTEGER C04d_02
E C04d_01>=1 && (@rowcode==101 @rowcode==102 @rowcode==103 @rowcode==104 @rowcode==201 @rowcode==202 @rowcode==203 @rowcode==301 @rowcode==302 @rowcode==303 @rowcode==304 @rowcode==305) And 239 other symbols [5]	-----

C.5 SOLAR BASED DEVICES

C.5 SOLAR BASED DEVICES

C.5.A ABOUT SOLAR DEVICES AT HOME

C05a01. Interviewer/CAPI check: In the last 12 months, did the household use any of the following solar based devices? Multiple responses possible.	MULTI-SELECT C05a01
	01 <input type="checkbox"/> Solar home system 02 <input type="checkbox"/> Solar lighting system 03 <input type="checkbox"/> Solar lanterns 04 <input type="checkbox"/> None
C05a02. How many solar home systems (SHS) do you have? Number of solar home systems. If none write 0 .	NUMERIC: INTEGER C05a02

C05a03. How many solar lighting systems do you have? Number of solar lighting system. If none write 0 .	NUMERIC: INTEGER C05a03

<p>C05a04. How many solar lanterns do you have? Number of solar lanterns If none write 0 .</p>	<p>NUMERIC: INTEGER C05a04</p> <p>-----</p>
<p>TotalSolarSystem. All types of Total Solar System</p> <p>V1 self== (C05a02+C05a03+C05a04) M1 Equal sum</p>	<p>NUMERIC: INTEGER TotalSolarSystem</p> <p>-----</p>

STATIC TEXT

Ask about all devices in order of importance (Example: Main Solar System is Device 1)

C.5 SOLAR BASED DEVICES / C.5.A ABOUT SOLAR DEVICES AT HOME

Roster: SOLAR DEVICES AT HOME

generated by numeric question [TotalSolarSystem](#)

C5A_SolarDevices

<p>C05a05. PPlease show me the [DEVICE] Use photo aid and record the code for the photo that best matches the solar device</p> <p>I (Instruction: Check the solar device and record type of solar system)</p>	<p>SINGLE-SELECT C05a05</p> <p>01 <input type="radio"/> Solar Lantern 02 <input type="radio"/> Solar Lighting System 03 <input type="radio"/> Solar home System</p>
<p>C05a06a. What is the manufacturer and model of the [DEVICE]? How about if we asking made only? Too hard. How about scanning barcode? a. Name of manufacture b. Model</p>	<p>TEXT C05a06a</p> <p>-----</p>
<p>C05a06b. Where did you purchase [DEVICE]?</p>	<p>SINGLE-SELECT C05a06b</p> <p>01 <input type="radio"/> In this village 02 <input type="radio"/> In other village 03 <input type="radio"/> In this town 04 <input type="radio"/> In other town 05 <input type="radio"/> Don't know</p>
<p>C05a08. How many light bulbs are there (that can be separated from each other)? NUMBER OF LIGHT BULBS</p> <p>E C05a05.InList (2, 3)</p>	<p>NUMERIC: INTEGER C05a08</p> <p>-----</p>
<p>C05a08a. Does [ITEM/Solar product] have mobile charging feature?</p>	<p>SINGLE-SELECT C05a08a</p> <p>01 <input type="radio"/> Yes 02 <input type="radio"/> No</p>
<p>C05a08b. Does [ITEM/Solar Product] have radio feature?</p>	<p>SINGLE-SELECT C05a08b</p> <p>01 <input type="radio"/> Yes 02 <input type="radio"/> No</p>
<p>C05a09. What is the power rating of the solar panel? Read the name plate of the solar panel QUANT. in Watt-Peak (Wp) If unknown, enter "888"</p> <p>E C05a05.InList (2, 3)</p>	<p>NUMERIC: INTEGER C05a09</p> <p>-----</p>
<p>C05a10. What is the estimated size of the solar panel?</p> <p>E C05a05.InList (2, 3)</p>	<p>SINGLE-SELECT C05a10</p> <p>001 <input type="radio"/> 8" x8" or smaller 002 <input type="radio"/> 16" x 16" 003 <input type="radio"/> 20" x 40" 004 <input type="radio"/> 26" x 60" or larger 555 <input type="radio"/> Other, specify (in width and length)</p>

<p>C05a10Other. Other(Specify)</p> <p>E C05a10==555</p>	<p>TEXT</p> <p>C05a10other</p> <p>.....</p>
<p>C05a11.What is the capacity of the battery? Amp-hours (Ah)</p> <p>E C05a05.InList (2, 3)</p>	<p>NUMERIC: DECIMAL</p> <p>C05a11</p> <p>-----</p>
<p>C05a12.Does the system have an inverter?</p> <p>E C05a05.InList (2, 3)</p>	<p>SINGLE-SELECT</p> <p>C05a12</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>C05a13. How many years have you had this [DEVICE]? Record in years, if less than 1, record 1 NUMBER OF YEARS</p>	<p>NUMERIC: INTEGER</p> <p>C05a13</p> <p>-----</p>
<p>C05a14. Did you buy this [DEVICE] paying upfront or under installment, do you rent it/pay a fee to use it, or did you receive it for free?</p>	<p>SINGLE-SELECT</p> <p>C05a14</p> <p>01 <input type="radio"/> Bought, fully paid</p> <p>02 <input type="radio"/> Bought, under installment</p> <p>03 <input type="radio"/> Rent/pay fee to use</p> <p>04 <input type="radio"/> Received for free</p>
<p>C05a15. Who decided to purchase/ acquire this [DEVICE]? MEMBER ID</p>	<p>SINGLE-SELECT: LINKED</p> <p>C05a15</p>
<p>C05a16. Who gave you this [DEVICE]?</p> <p>E C05a14==4</p>	<p>SINGLE-SELECT</p> <p>C05a16</p> <p>001 <input type="radio"/> Non-government Organization (NGO)</p> <p>002 <input type="radio"/> Chief of village</p> <p>003 <input type="radio"/> Union government</p> <p>004 <input type="radio"/> Local government</p> <p>005 <input type="radio"/> Relative/Friend</p> <p>555 <input type="radio"/> Other, specify</p>
<p>C05a16Other. Other(Specify)</p> <p>E C05a16==555</p>	<p>TEXT</p> <p>C05a16other</p> <p>.....</p>
<p>C05a17. How much did you pay for this [DEVICE] upfront? LOCAL CURRENCY</p> <p>E C05a14.InList (1, 2)</p>	<p>NUMERIC: INTEGER</p> <p>C05a17</p> <p>-----</p>
<p>C05a18. What payment system do you use?</p> <p>E C05a14.InList (3)</p>	<p>SINGLE-SELECT</p> <p>C05a18</p> <p>01 <input type="radio"/> Mobile Pay-as-you-go</p> <p>02 <input type="radio"/> Other Pay-as-you go (scratch card, etc.)</p> <p>03 <input type="radio"/> Fixed fee</p>
<p>C05a18_period. How many months do you have to pay back for your device?</p> <p>E C05a14.InList (2, 3)</p>	<p>NUMERIC: INTEGER</p> <p>C05a18 period</p> <p>-----</p>
<p>C05a19. What is the monthly payment for this [DEVICE] (installment/ fee to rent/use)? LOCAL CURRENCY</p> <p>E C05a14.InList (2, 3)</p>	<p>NUMERIC: INTEGER</p> <p>C05a19</p> <p>-----</p>
<p>C05a20. Did/do you borrow money to make your payment for [DEVICE]?</p>	<p>SINGLE-SELECT</p> <p>C05a20</p> <p>01 <input type="radio"/> Yes</p>

	02 <input type="radio"/> No	
C05a21. Did you receive information and training on this [DEVICE]?	SINGLE-SELECT 01 <input type="radio"/> Yes 02 <input type="radio"/> No	C05a21
C05a22. How many hours do you use [DEVICE] for lighting and other applications each day? HOURS Don't know 888 (Cannot exceed 24 hours)	NUMERIC: INTEGER -----	C05a22
V1 self<=24 self==888 M1 Max 24		
C05c01. What is the most serious problem you experience with [DEVICE]?	SINGLE-SELECT 001 <input type="radio"/> Duration of service too short 002 <input type="radio"/> Too expensive 003 <input type="radio"/> Cannot power large appliances 004 <input type="radio"/> Breaks too often 005 <input type="radio"/> Maintenance and availability of spare parts 006 <input type="radio"/> Quality of light 007 <input type="radio"/> Battery problems 008 <input type="radio"/> Not enough sunshine 555 <input type="radio"/> Other, specify 111 <input type="radio"/> No problems	C05c01

C.5 SOLAR BASED DEVICES
C.5.B MAIN SOLAR DEVICE

E C05a01.ContainsAny(1,2,3)

STATIC TEXT

Record information for the MAIN solar-based device, the device listed as "1" in the previous table.

C05b01. Are there certain months/seasons every year when the service is not as strong from [DEVICE]?	SINGLE-SELECT 01 <input type="radio"/> Yes 02 <input type="radio"/> No	C05b01
C05b02a. What are the services like for each month? Note: Months for No service at all (Multiple choice).	MULTI-SELECT 001 <input type="checkbox"/> January (ပုဂ္ဂိုလ် - ဆောင်ရွက်) 002 <input type="checkbox"/> February (တပို့တံ့ - ဆောင်ရွက်) 003 <input type="checkbox"/> March (တပေဂ်ငွေ - နှံ့စွမ်း) 004 <input type="checkbox"/> April (တနင်္ဂနွေ - နှံ့စွမ်း) 005 <input type="checkbox"/> May (ကဆုန် - နှံ့စွမ်း) 006 <input type="checkbox"/> June (နယုန် - မိုး) 007 <input type="checkbox"/> July (ဝါဆို - မိုး) 008 <input type="checkbox"/> August (ဝါခေါင် - မိုး) 009 <input type="checkbox"/> September (တောတောင်လင်း - မိုး) 010 <input type="checkbox"/> October (သီတင်းကုန်းတော် - မိုး) 011 <input type="checkbox"/> November (တနင်္ဂနွေ - ဆောင်ရွက်) 012 <input type="checkbox"/> December (နတ်တော် - ဆောင်ရွက်) 777 <input type="checkbox"/> None	C05b02a
V1 (!self.Contains(777) && self.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14)) (self.Contains(777) && !self.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14)) M1 if choose none, not choose other		
C05b02b. What are the services like for each month? Note: For Worst months. (Multiple choice)	MULTI-SELECT 001 <input type="checkbox"/> January (ပုဂ္ဂိုလ် - ဆောင်ရွက်) 002 <input type="checkbox"/> February (တပို့တံ့ - ဆောင်ရွက်) 003 <input type="checkbox"/> March (တပေဂ်ငွေ - နှံ့စွမ်း) 004 <input type="checkbox"/> April (တနင်္ဂနွေ - နှံ့စွမ်း) 005 <input type="checkbox"/> May (ကဆုန် - နှံ့စွမ်း) 006 <input type="checkbox"/> June (နယုန် - မိုး) 007 <input type="checkbox"/> July (ဝါဆို - မိုး)	C05b02b
V1 (!self.Contains(777) && self.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14)) (self.Contains(777) && !self.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14)) M1 if choose none, not choose other V2 ((C05b02a.Contains(1) && !C05b02b.Contains(1)) (!C05b02a.Contains(1) && C05b02b.ContainsAny(1,2,3,4,5,6,7,8,9		

,10,11,12,13,14,777))) && ((C05b02a.Contains(2) && !C05b02b.Contains(2)) || (!C05b02a And [1770 other symbols \[3\]](#))

M2 not contains not services at all months

- 008 August (အဂ္ဂိလိလ - မိုး)
- 009 September (တော့သလလလ - မိုး)
- 010 October (သီတလလကလ္လတလ - မိုး)
- 011 November (တနင်္ဂနွေလလ - ဆောင်း)
- 012 December (နိုဝင်ဘာလ - ဆောင်း)
- 777 None

STATIC TEXT

Ask respondent first about the worst months and then about a typical month . If no seasonal changes , ask only about a typical month. Ask questions by ROW. A. WORST MONTHS B. TYPICAL MONTH

<p>C05b03a. How many hours do you receive service from this [DEVICE] each day and night? (max 24 hours) A. WORST MONTHS Hours of supply Don't know 888</p> <p>E C05b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12)</p> <p>V1 self<=24</p> <p>M1 Max 24</p>	<p>NUMERIC: INTEGER C05b03a</p> <p>-----</p>
<p>C05b03b. How many hours do you receive service from this [DEVICE] each day and night? (max 24 hours) B. TYPICAL MONTH Hours of supply Don't know 888</p> <p>V1 self<=24</p> <p>M1 Max 24</p> <p>V2 (C05b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12) && self >=C05b03a) self<=24</p> <p>M2 greather than or equal worst month</p>	<p>NUMERIC: INTEGER C05b03b</p> <p>-----</p>
<p>C05b04a. How many hours is service available from this [DEVICE] each evening, from 6:00 pm to 10:00 pm? (max 4 hours) A. WORST MONTHS Hours of supply Don't know 888</p> <p>E C05b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12)</p> <p>V1 self<=4</p> <p>M1 Max 4</p>	<p>NUMERIC: INTEGER C05b04a</p> <p>-----</p>
<p>C05b04b. How many hours is service available from this [DEVICE] each evening, from 6:00 pm to 10:00 pm? (max 4 hours) B. TYPICAL MONTH Hours of supply Don't know 888</p> <p>V1 self<=4</p> <p>M1 Max 4</p> <p>V2 (C05b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12) && self >=C05b04a) self<=4</p> <p>M2 greather than or equal worst month</p>	<p>NUMERIC: INTEGER C05b04b</p> <p>-----</p>
<p>C05b05a. How many hours do you actually use the [DEVICE] each day for lighting and other applications? (max 24 hours) Cannot exceed hours in C05b03 A. WORST MONTHS Hours of supply Don't know 888</p> <p>E C05b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12)</p> <p>V1 self<=C05b03a</p> <p>M1 Max 24</p>	<p>NUMERIC: INTEGER C05b05a</p> <p>-----</p>
<p>C05b05b. How many hours do you actually use the [DEVICE] each day for lighting and other applications? (max 24 hours) Cannot exceed hours in C05b03 B. TYPICAL MONTH Hours of supply Don't know 888</p> <p>V1 self<=C05b03b</p>	<p>NUMERIC: INTEGER C05b05b</p> <p>-----</p>

M1 Max 24 V2 (C05b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12) && self >=C05b05a) self<=C05b03b M2 greather than or equal worst month	
C05b06. Is there any device you do not have that you would like to have?	SINGLE-SELECT C05b06 001 <input type="radio"/> Yes 002 <input type="radio"/> No 888 <input type="radio"/> Don't know
C05b07. What devices would you most like to have? Multiple response (Up to three devices) E C05b06!=2	MULTI-SELECT C05b07 001 <input type="checkbox"/> Television 002 <input type="checkbox"/> Fan 003 <input type="checkbox"/> Refrigerator 004 <input type="checkbox"/> Radio 005 <input type="checkbox"/> Tablet/laptop/computer 006 <input type="checkbox"/> Mobile phone charger 555 <input type="checkbox"/> Other, specify 888 <input type="checkbox"/> Don't know/refuse to answer
C05b07Other. Other(Specify) E C05b07.Contains(555)	TEXT C05b07Other
C05b08.Overall, how satisfied with the service provided by the main solar device?	SINGLE-SELECT C05b08 01 <input type="radio"/> Very satisfied 02 <input type="radio"/> Somewhat satisfied 03 <input type="radio"/> Neutral 04 <input type="radio"/> Unsatisfied 05 <input type="radio"/> Very unsatisfied
C05b09. In what year did you get your first solar device? Year Don't know 888	NUMERIC: INTEGER C05b09 -----
C05b10.Has solar been your main source of lighting/electricity since [YEAR in C05b09]?	SINGLE-SELECT C05b10 001 <input type="radio"/> Yes 002 <input type="radio"/> No 888 <input type="radio"/> Don't know
C05b11.What was your main source of lighting/electricity when it was not a solar device? E C05b10!=1	SINGLE-SELECT C05b11 001 <input type="radio"/> National grid /Border or Thai grid /Township own grid 002 <input type="radio"/> Local mini grid connection 003 <input type="radio"/> Electric generator 004 <input type="radio"/> Rechargeable battery and storage devices (e.g.: car battery) 005 <input type="radio"/> Pico-hydro 006 <input type="radio"/> kerosene/diesel lamp 007 <input type="radio"/> Fuel-based lighting 008 <input type="radio"/> Dry-cell (non-rechargeable) battery/ Torch/Flashlight/Lamp 009 <input type="radio"/> Candle 555 <input type="radio"/> Other, specify
C05b11Other. Other(Specify) E C05b11==555	TEXT C05b11Other
C05b12.Compared to the first time you used solar lighting, do you currently... Read aloud options	SINGLE-SELECT C05b12 001 <input type="radio"/> Use more solar lighting 002 <input type="radio"/> Use about the same solar lighting 003 <input type="radio"/> Use less solar lighting

	888 <input type="radio"/> Don't know
C05b13. What appliances do you use today that you did not use with your first solar lighting device?	MULTI-SELECT C05b13 001 <input type="checkbox"/> Electric charger 002 <input type="checkbox"/> Radio 003 <input type="checkbox"/> TV 004 <input type="checkbox"/> Fan 006 <input type="checkbox"/> No change 555 <input type="checkbox"/> Other, specify
C05b13Other. Other(Specify)	TEXT C05b13Other
E C05b13.Contains(555)	

C.5 SOLAR BASED DEVICES
C.5.D USE OF ELECTRICITY SERVICE FROM SOLAR BASED DE

E C05a01.ContainsAny(1,2,3)

C.5 SOLAR BASED DEVICES / C.5.D USE OF ELECTRICITY SERVICE FROM SOLAR BASED DE
Roster: ELECTRICITY USE FROM SOLAR BASED DEVICES
generated by multi-select question C1

C5D_UseElectricitySolarDevice

C05d_01. In a typical day how many of the %rostertitle% are used. Write 0 if none 0 NEXT ROW	NUMERIC: INTEGER C05d_01
E @rowcode==101 @rowcode==102 @rowcode==103 @rowcode==104 @rowcode==201 @rowcode==202 @rowcode==203 @rowcode==301 @rowcode==302 @rowcode==303 @rowcode==304 @rowcode==305 And 357 other symbols [6]	
V1 self<=C2	
M1 Less than or equal total	
C05d_02. What is the total sum of hours used? Number of hours	NUMERIC: INTEGER C05d_02
E C05d_01>=1 && (@rowcode==101 @rowcode==102 @rowcode==103 @rowcode==104 @rowcode==201 @rowcode==202 @rowcode==203 @rowcode==301 @rowcode==302 @rowcode==303 @rowcode==304 And 239 other symbols [7]	

C.6,7,8 ELECTRICITY, CHARGING, STREET LIGHTING

C.6,7,8 ELECTRICITY, CHARGING, STREET LIGHTING
C.6 MAIN SOURCE OF ELECTRICITY

C06_01. Of all the sources that you mentioned above, which is the source that you use the most in your household? This will be the MAIN electricity source that is referred to later.	SINGLE-SELECT C06_01 001 <input type="radio"/> National grid /Border or Thai grid /Township own grid 002 <input type="radio"/> Local Mini Grid connection 003 <input type="radio"/> Electric generator 004 <input type="radio"/> Solar Home System 005 <input type="radio"/> Solar Lantern/Lighting System 006 <input type="radio"/> Rechargeable Battery 007 <input type="radio"/> Pico-Hydro 008 <input type="radio"/> Dry-cell battery 009 <input type="radio"/> No electricity 555 <input type="radio"/> Other, specify
V1 (self==1 && C01f01.InList(1,2,3)) self!=1	
M1 Please check with government grid connection	
V2 (self==2 && C02a01==1) self!=2	
M2 Please check with mini grid connection	
V3 (self==3 && C03a01==1) self!=3	
M3 Please check with generator section	
V4 (self==4 && C05a01.Contains(1)) self!=4	
M4 Please check with solar system	
V5 (self==5 && C05a01.ContainsAny(2,3)) self!=5	
M5 Please check with solar system	
V6 (self==6 && C04a01==1) self!=6	

M6 Please check with rechargeable battery section	
C06_01Other. Other, Specify	TEXT C06_01Other
E C06_01==555

C.6,7,8 ELECTRICITY, CHARGING, STREET LIGHTING
C.7 CHARGING MOBILE PHONE

C07_01. How many mobile phones do the household that members are using?	NUMERIC: INTEGER C07_01 -----
C07_02. Are members of your household able to charge a mobile phone inside your dwelling?	SINGLE-SELECT C07_02 01 <input type="radio"/> Yes 02 <input type="radio"/> No
E C07_01>=1	
C07_03. Are members of your household able to charge all their mobile phones as often as they need inside your dwelling?	SINGLE-SELECT C07_03 001 <input type="radio"/> Yes 002 <input type="radio"/> No 888 <input type="radio"/> Don't know
E C07_02==1	
C07_04. Can you charge at least one mobile phone to full charge everyday inside your dwelling?	SINGLE-SELECT C07_04 01 <input type="radio"/> Yes 02 <input type="radio"/> No
E C07_02==1	
C07_05. Can you charge at least one mobile phone to full charge in 3 days inside your dwelling?	SINGLE-SELECT C07_05 01 <input type="radio"/> Yes 02 <input type="radio"/> No
E C07_04==2	
C07_06. How many mobile phones of your household members do you charge outside your dwelling? Number of mobile phones	NUMERIC: INTEGER C07_06 -----
E C07_03!=1	
C07_07. Do members of your household have to go more than 500 meters (walk more than 5 minutes) to charge your mobile phones outside your dwelling?	SINGLE-SELECT C07_07 01 <input type="radio"/> Yes 02 <input type="radio"/> No
E C07_06>=1	
C07_08. How much does your household spend each month (in total) on charging the mobile phone(s) outside your dwelling? Local currency	NUMERIC: INTEGER C07_08 -----
E C07_06>=1	

C.6,7,8 ELECTRICITY, CHARGING, STREET LIGHTING
C.8 STREET LIGHTING

STATIC TEXT

The respondent should be the most knowledgeable household member on household electricity, as identified in

C08_01. Does your neighborhood/village have any form of street lighting?	SINGLE-SELECT C08_01 01 <input type="radio"/> Yes 02 <input type="radio"/> No
--	---

<p>C08_02. How satisfied are you by the brightness of the street lighting service in your neighborhood? Read options aloud</p> <p>E C08_01==1</p>	<p>SINGLE-SELECT C08_02</p> <p>01 <input type="radio"/> Very unsatisfied</p> <p>02 <input type="radio"/> Somewhat unsatisfied</p> <p>03 <input type="radio"/> Somewhat satisfied</p> <p>04 <input type="radio"/> Very satisfied</p>
<p>C08_03. What do you think are the risks/problems with street lighting in your neighborhood? Multiple responses possible</p> <p>E C08_01==1</p>	<p>MULTI-SELECT C08_03</p> <p>001 <input type="checkbox"/> Electrocutation</p> <p>002 <input type="checkbox"/> Poor installation</p> <p>003 <input type="checkbox"/> Poor maintenance</p> <p>004 <input type="checkbox"/> Outages/blackouts of street lighting</p> <p>005 <input type="checkbox"/> Does not stay on all night</p> <p>777 <input type="checkbox"/> No risks/problems</p>
<p>C08_04. Do you have a light that you could turn on at night to provide light outside your home?</p> <p>E C08_01==1</p>	<p>SINGLE-SELECT C08_04</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>C08_05. How many hours do you turn it on each night after it becomes dark? Number of hours</p> <p>E C08_04==1</p>	<p>NUMERIC: DECIMAL C08_05</p> <p>-----</p>

D. WILLINGNESS TO PAY FOR ELECTRICITY

STATIC TEXT

Respondent should be most knowledgeable member on household electricity. Households who are not connected to main-grid are eligible to answer to this module.

<p>Dresp1 Enumerator: Record Respondent ID for this section</p>	<p>SINGLE-SELECT: LINKED Dresp1</p>
---	--

D. WILLINGNESS TO PAY FOR ELECTRICITY D.1 FOR A GRID CONNECTION

<p>D01_01. Interviewer/CAPI check: Is the household connected to the national grid?</p> <p>V1 (C01f01.InRange(1,3) && D01_01==1) D01_01!=1</p> <p>M1 Check again with C1</p>	<p>SINGLE-SELECT D01_01</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
---	---

STATIC TEXT

Electricity requires several types of payments. There are three parts to the cost of electricity: connection, wiring, and monthly use. In other words, to use electricity you need to have a wire from a meter in your house to the pole first. That is the connection. You also need to have wires to connect appliances within your house to the meter. This is the wiring. Finally, to keep using electricity you must pay for what is used and measured by the meter, or it will be turned off, this is the cost of monthly use. I would like to ask you questions only about the first cost of connecting – getting a wire from the electricity poles to a meter on your house.

STATIC TEXT

If you could pay a “lump sum” price for an electricity connection, in other words, you are offered a price and a period of time to decide whether to take this price. If you decide to take the price, you have to pay all at once, after which you are immediately connected. As you answer the next few questions, assume that all other wiring fees and monthly service fees for using electricity, once you have the connection, remain the same as they are now.

<p>D01_03a. Will you be willing to participate in village electrification effort, with VEC to electrify your home and village?</p>	<p>SINGLE-SELECT D01_03a</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
--	--

E D01_01==2	03 <input type="radio"/> May be
D01_03b. If no, why not participate?	SINGLE-SELECT D01_03b
E D01_03a==2	01 <input type="radio"/> No time participate 02 <input type="radio"/> No money to contribute 03 <input type="radio"/> No knowledge to contribute 04 <input type="radio"/> No one invite to participate 05 <input type="radio"/> Government housing 06 <input type="radio"/> Private owner housing

D. WILLINGNESS TO PAY FOR ELECTRICITY / D.1 FOR A GRID CONNECTION
PAYMENT %

E D01_01==2	
-------------	--

D. WILLINGNESS TO PAY FOR ELECTRICITY / D.1 FOR A GRID CONNECTION / PAYMENT %
D.1A 100% PAYMENT

E Quest. IRnd() >=0.833333333	
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D01a_04. Would you be willing to pay [150,000 MMK] for an electricity connection upfront?	SINGLE-SELECT D01a_04
	01 <input type="radio"/> Yes 02 <input type="radio"/> No
D01a_06. Would you be willing to pay {150,000 MMK} for an electricity connection, if you were given 3 Months Installment = 50,000MMK per month	SINGLE-SELECT D01a_06
	01 <input type="radio"/> Yes 02 <input type="radio"/> No
E D01a_04==2	
D01a_07. If no, why not participate?	SINGLE-SELECT D01a_07
E D01a_06==2	001 <input type="radio"/> Cannot afford the payment 002 <input type="radio"/> Do not need electricity 003 <input type="radio"/> Electricity service is unreliable 004 <input type="radio"/> Monthly fee is too expensive 555 <input type="radio"/> Other, specify
D01a_07Other. Other(Specify)	TEXT D01a_07Other
E D01a_07==555
D01a_08. Would you be willing to pay {150,000 MMK} for an electricity connection, if you were given 6 Months Installment = 25,000MMK per month	SINGLE-SELECT D01a_08
	01 <input type="radio"/> Yes 02 <input type="radio"/> No
E D01a_06==2	
D01a_09. If no, why not participate?	SINGLE-SELECT D01a_09
E D01a_08==2	001 <input type="radio"/> Cannot afford the payment 002 <input type="radio"/> Do not need electricity 003 <input type="radio"/> Electricity service is unreliable 004 <input type="radio"/> Monthly fee is too expensive 555 <input type="radio"/> Other, specify
D01a_09Other. Other(Specify)	TEXT D01a_09Other
E D01a_09==555
D01a_10. Would you be willing to pay {150,000 MMK} for an electricity connection, if you were given 12 Months Installment = 12,500MMK per month	SINGLE-SELECT D01a_10
	01 <input type="radio"/> Yes 02 <input type="radio"/> No

E D01a_08==2		
D01a_11. If no, why not participate?	SINGLE-SELECT	D01a_11
E D01a_10==2	001 <input type="radio"/> Cannot afford the payment 002 <input type="radio"/> Do not need electricity 003 <input type="radio"/> Electricity service is unreliable 004 <input type="radio"/> Monthly fee is too expensive 555 <input type="radio"/> Other, specify	
D01a_11Other. Other(Specify)	TEXT	D01a_11Other
E D01a_11==555	

D. WILLINGNESS TO PAY FOR ELECTRICITY / D.1 FOR A GRID CONNECTION / PAYMENT %

D.1B 71% PAYMENT

E Quest.IRnd() >=0.666666667 && Quest.IRnd() <0.833333333

D01b_04. Would you be willing to pay [106,500 MMK] for an electricity connection upfront?	SINGLE-SELECT	D01b_04
E D01b_04==2	01 <input type="radio"/> Yes 02 <input type="radio"/> No	
D01b_06. Would you be willing to pay {106,500 MMK} for an electricity connection, if you were given 3 Months Installment = 35,667MMK per month	SINGLE-SELECT	D01b_06
E D01b_06==2	01 <input type="radio"/> Yes 02 <input type="radio"/> No	
D01b_07. If no, why not participate?	SINGLE-SELECT	D01b_07
E D01b_06==2	001 <input type="radio"/> Cannot afford the payment 002 <input type="radio"/> Do not need electricity 003 <input type="radio"/> Electricity service is unreliable 004 <input type="radio"/> Monthly fee is too expensive 555 <input type="radio"/> Other, specify	
D01b_07Other. Other(Specify)	TEXT	D01b_07Other
E D01b_07==555	
D01b_08. Would you be willing to pay {106,500 MMK} for an electricity connection, if you were given 6 Months Installment = 17,833MMK per month	SINGLE-SELECT	D01b_08
E D01b_06==2	01 <input type="radio"/> Yes 02 <input type="radio"/> No	
D01b_09. If no, why not participate?	SINGLE-SELECT	D01b_09
E D01b_08==2	001 <input type="radio"/> Cannot afford the payment 002 <input type="radio"/> Do not need electricity 003 <input type="radio"/> Electricity service is unreliable 004 <input type="radio"/> Monthly fee is too expensive 555 <input type="radio"/> Other, specify	
D01b_09Other. Other(Specify)	TEXT	D01b_09Other
E D01b_09==555	
D01b_10. Would you be willing to pay {106,500 MMK} for an electricity connection, if you were given 12 Months Installment = 8,917MMK per month	SINGLE-SELECT	D01b_10
E D01b_08==2	01 <input type="radio"/> Yes 02 <input type="radio"/> No	

<p>D01b_11. If no, why not participate?</p> <p>E D01b_10==2</p>	<p>SINGLE-SELECT D01b_11</p> <p>001 <input type="radio"/> Cannot afford the payment</p> <p>002 <input type="radio"/> Do not need electricity</p> <p>003 <input type="radio"/> Electricity service is unreliable</p> <p>004 <input type="radio"/> Monthly fee is too expensive</p> <p>555 <input type="radio"/> Other, specify</p>
<p>D01b_11Other. Other(Specify)</p> <p>E D01b_11==555</p>	<p>TEXT D01b_11Other</p> <p>.....</p>

D. WILLINGNESS TO PAY FOR ELECTRICITY / D.1 FOR A GRID CONNECTION / PAYMENT %
D.1C 57% PAYMENT

E Quest.IRnd() >=0.5 && Quest.IRnd() <0.666666667

<p>D01c_04. Would you be willing to pay [85,500 MMK] for an electricity connection upfront?</p>	<p>SINGLE-SELECT D01c_04</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>D01c_06. Would you be willing to pay {85,500 MMK} for an electricity connection, if you were given 3 Months Installment = 28,667MMK per month</p> <p>E D01c_04==2</p>	<p>SINGLE-SELECT D01c_06</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>D01c_07. If no, why not participate?</p> <p>E D01c_06==2</p>	<p>SINGLE-SELECT D01c_07</p> <p>001 <input type="radio"/> Cannot afford the payment</p> <p>002 <input type="radio"/> Do not need electricity</p> <p>003 <input type="radio"/> Electricity service is unreliable</p> <p>004 <input type="radio"/> Monthly fee is too expensive</p> <p>555 <input type="radio"/> Other, specify</p>
<p>D01c_07Other. Other(Specify)</p> <p>E D01c_07==555</p>	<p>TEXT D01c_07Other</p> <p>.....</p>
<p>D01c_08. Would you be willing to pay {85,500 MMK} for an electricity connection, if you were given 6 Months Installment = 14,333MMK per month</p> <p>E D01c_06==2</p>	<p>SINGLE-SELECT D01c_08</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>D01c_09. If no, why not participate?</p> <p>E D01c_08==2</p>	<p>SINGLE-SELECT D01c_09</p> <p>001 <input type="radio"/> Cannot afford the payment</p> <p>002 <input type="radio"/> Do not need electricity</p> <p>003 <input type="radio"/> Electricity service is unreliable</p> <p>004 <input type="radio"/> Monthly fee is too expensive</p> <p>555 <input type="radio"/> Other, specify</p>
<p>D01c_09Other. Other(Specify)</p> <p>E D01c_09==555</p>	<p>TEXT D01c_09Other</p> <p>.....</p>
<p>D01c_10. Would you be willing to pay {85,500 MMK} for an electricity connection, if you were given 12 Months Installment = 7,167MMK per month</p> <p>E D01c_08==2</p>	<p>SINGLE-SELECT D01c_10</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>D01c_11. If no, why not participate?</p> <p>E D01c_10==2</p>	<p>SINGLE-SELECT D01c_11</p> <p>001 <input type="radio"/> Cannot afford the payment</p>

- 002 Do not need electricity
- 003 Electricity service is unreliable
- 004 Monthly fee is too expensive
- 555 Other, specify

D01c_11Other. Other(Specify)	TEXT D01c_11Other
E D01c_11==555

D. WILLINGNESS TO PAY FOR ELECTRICITY / D.1 FOR A GRID CONNECTION / PAYMENT %
D.1D 43% PAYMENT

E Quest.IRnd() >=0.333333333 && Quest.IRnd() <0.5

D01d_04. Would you be willing to pay [64,500 MMK] for an electricity connection upfront?	SINGLE-SELECT D01d_04 01 <input type="radio"/> Yes 02 <input type="radio"/> No
E D01d_04==2	
D01d_06. Would you be willing to pay {64,500 MMK} for an electricity connection, if you were given 3 Months Installment = 21,667MMK per month	SINGLE-SELECT D01d_06 01 <input type="radio"/> Yes 02 <input type="radio"/> No
E D01d_04==2	
D01d_07. If no, why not participate?	SINGLE-SELECT D01d_07 001 <input type="radio"/> Cannot afford the payment 002 <input type="radio"/> Do not need electricity 003 <input type="radio"/> Electricity service is unreliable 004 <input type="radio"/> Monthly fee is too expensive 555 <input type="radio"/> Other, specify
E D01d_06==2	
D01d_07Other. Other(Specify)	TEXT D01d_07Other
E D01d_07==555
D01d_08. Would you be willing to pay {64,500 MMK} for an electricity connection, if you were given 6 Months Installment = 10,833MMK per month	SINGLE-SELECT D01d_08 01 <input type="radio"/> Yes 02 <input type="radio"/> No
E D01d_06==2	
D01d_09. If no, why not participate?	SINGLE-SELECT D01d_09 001 <input type="radio"/> Cannot afford the payment 002 <input type="radio"/> Do not need electricity 003 <input type="radio"/> Electricity service is unreliable 004 <input type="radio"/> Monthly fee is too expensive 555 <input type="radio"/> Other, specify
E D01d_08==2	
D01d_09Other. Other(Specify)	TEXT D01d_09Other
E D01d_09==555
D01d_10. Would you be willing to pay {64,500 MMK} for an electricity connection, if you were given 12 Months Installment = 5,417MMK per month	SINGLE-SELECT D01d_10 01 <input type="radio"/> Yes 02 <input type="radio"/> No
E D01d_08==2	
D01d_11. If no, why not participate?	SINGLE-SELECT D01d_11 001 <input type="radio"/> Cannot afford the payment 002 <input type="radio"/> Do not need electricity 003 <input type="radio"/> Electricity service is unreliable
E D01d_10==2	

- 004 Monthly fee is too expensive
- 555 Other, specify

D01d_11Other. Other(Specify)	TEXT D01d_11Other
E D01d_11==555

D. WILLINGNESS TO PAY FOR ELECTRICITY / D.1 FOR A GRID CONNECTION / PAYMENT %
D.1E 29% PAYMENT

E Quest.IRnd() >=0.166666667 && Quest.IRnd() <0.333333333

D01e_04. Would you be willing to pay [43,500 MMK] for an electricity connection upfront?	SINGLE-SELECT D01e_04 01 <input type="radio"/> Yes 02 <input type="radio"/> No
E D01e_04==2	
D01e_06. Would you be willing to pay {43,500 MMK} for an electricity connection, if you were given 3 Months Installment = 14,667MMK per month	SINGLE-SELECT D01e_06 01 <input type="radio"/> Yes 02 <input type="radio"/> No
E D01e_04==2	
D01e_07. If no, why not participate?	SINGLE-SELECT D01e_07 001 <input type="radio"/> Cannot afford the payment 002 <input type="radio"/> Do not need electricity 003 <input type="radio"/> Electricity service is unreliable 004 <input type="radio"/> Monthly fee is too expensive 555 <input type="radio"/> Other, specify
E D01e_06==2	
D01e_07Other. Other(Specify)	TEXT D01e_07Other
E D01e_07==555
D01e_08. Would you be willing to pay {43,500 MMK} for an electricity connection, if you were given 6 Months Installment = 7,333MMK per month	SINGLE-SELECT D01e_08 01 <input type="radio"/> Yes 02 <input type="radio"/> No
E D01e_06==2	
D01e_09. If no, why not participate?	SINGLE-SELECT D01e_09 001 <input type="radio"/> Cannot afford the payment 002 <input type="radio"/> Do not need electricity 003 <input type="radio"/> Electricity service is unreliable 004 <input type="radio"/> Monthly fee is too expensive 555 <input type="radio"/> Other, specify
E D01e_08==2	
D01e_09Other. Other(Specify)	TEXT D01e_09Other
E D01e_09==555
D01e_10. Would you be willing to pay {43,500} for an electricity connection, if you were given 12 Months Installment = 3,667MMK per month	SINGLE-SELECT D01e_10 01 <input type="radio"/> Yes 02 <input type="radio"/> No
E D01e_08==2	
D01e_11. If no, why not participate?	SINGLE-SELECT D01e_11 001 <input type="radio"/> Cannot afford the payment 002 <input type="radio"/> Do not need electricity 003 <input type="radio"/> Electricity service is unreliable 004 <input type="radio"/> Monthly fee is too expensive 555 <input type="radio"/> Other, specify
E D01e_10==2	

D01e_11Other. Other(Specify)	TEXT	D01e_11Other
E D01e_11==555	

D. WILLINGNESS TO PAY FOR ELECTRICITY / D.1 FOR A GRID CONNECTION / PAYMENT %
D.1F 14% PAYMENT

E Quest. IRnd () <0.166666667

D01f_04. Would you be willing to pay [21,000 MMK] for an electricity connection upfront?	SINGLE-SELECT 01 <input type="radio"/> Yes 02 <input type="radio"/> No	D01f_04
E D01f_04==2		
D01f_06. Would you be willing to pay {21,000 MMK} for an electricity connection, if you were given 3 Months Installment = 7,000MMK per month	SINGLE-SELECT 01 <input type="radio"/> Yes 02 <input type="radio"/> No	D01f_06
E D01f_06==2		
D01f_07. If no, why not participate?	SINGLE-SELECT 001 <input type="radio"/> Cannot afford the payment 002 <input type="radio"/> Do not need electricity 003 <input type="radio"/> Electricity service is unreliable 004 <input type="radio"/> Monthly fee is too expensive 555 <input type="radio"/> Other, specify	D01f_07
E D01f_07==2		
D01f_07Other. Other(Specify)	TEXT	D01f_07Other
E D01f_07==555	
D01f_08. Would you be willing to pay {21,000 MMK} for an electricity connection, if you were given 6 Months Installment = 3,500MMK per month	SINGLE-SELECT 01 <input type="radio"/> Yes 02 <input type="radio"/> No	D01f_08
E D01f_08==2		
D01f_09. If no, why not participate?	SINGLE-SELECT 001 <input type="radio"/> Cannot afford the payment 002 <input type="radio"/> Do not need electricity 003 <input type="radio"/> Electricity service is unreliable 004 <input type="radio"/> Monthly fee is too expensive 555 <input type="radio"/> Other, specify	D01f_09
E D01f_09==2		
D01f_09Other. Other(Specify)	TEXT	D01f_09Other
E D01f_09==555	
D01f_10. Would you be willing to pay {21,000 MMK} for an electricity connection, if you were given 12 Months Installment = 1,750MMK per month	SINGLE-SELECT 01 <input type="radio"/> Yes 02 <input type="radio"/> No	D01f_10
E D01f_10==2		
D01f_11. If no, why not participate?	SINGLE-SELECT 001 <input type="radio"/> Cannot afford the payment 002 <input type="radio"/> Do not need electricity 003 <input type="radio"/> Electricity service is unreliable 004 <input type="radio"/> Monthly fee is too expensive 555 <input type="radio"/> Other, specify	D01f_11
E D01f_11==2		
D01f_11Other. Other(Specify)	TEXT	D01f_11Other
E D01f_11==555	

D. WILLINGNESS TO PAY FOR ELECTRICITY / D.1 FOR A GRID CONNECTION / PAYMENT %
D.1G 0% PAYMENT

<p>D01_11. If the connection fee were waived, would you get a grid connection?</p>	<p>SINGLE-SELECT D01_11 01 <input type="radio"/> Yes 02 <input type="radio"/> No</p>
<p>D01_12. If no, why not participate?</p> <p>E D01_11==2</p>	<p>SINGLE-SELECT D01_12 002 <input type="radio"/> Do not need electricity 003 <input type="radio"/> Electricity service is unreliable 004 <input type="radio"/> Monthly fee is too expensive 005 <input type="radio"/> Cannot afford to pay the contribution to build network within village 555 <input type="radio"/> Other, specify</p>
<p>D01_12Other. Other(Specify)</p> <p>E D01_12==555</p>	<p>TEXT D01_12Other -----</p>
<p>D01_13. How much do you think it would cost to do all the internal electrical wiring in your house? Local currency Don't Know.....888</p>	<p>NUMERIC: INTEGER D01_13 -----</p>
<p>D01_14. Think about the amount you would need to spend each month for electricity, not the connection fee. How much would you need to spend each month for electricity? Local currency Don't Know.....888</p>	<p>NUMERIC: INTEGER D01_14 -----</p>

D. WILLINGNESS TO PAY FOR ELECTRICITY
D.2 FOR SOLAR HOME SYSTEM

D. WILLINGNESS TO PAY FOR ELECTRICITY / D.2 FOR SOLAR HOME SYSTEM
D.2 HIGH CAPACITY DEVICE 100 WP

D. WILLINGNESS TO PAY FOR ELECTRICITY / D.2 FOR SOLAR HOME SYSTEM / D.2 HIGH CAPACITY DEVICE 100 WP
D.2A 100% PAYMENT

E Quest. IRnd() >= 0.666666667 && Quest. IRnd() < 0.833333333

<p>D02a_01. Would you be willing to pay 300,000MMK for this solar device?</p>	<p>SINGLE-SELECT D02a_01 01 <input type="radio"/> Yes 02 <input type="radio"/> No</p>
<p>D02a_03. Would you be willing to pay {300,000 MMK} for this solar device, if you were given 6 Months to make payment? Installment = 50,000MMK per month</p> <p>E D02a_01==2</p>	<p>SINGLE-SELECT D02a_03 01 <input type="radio"/> Yes 02 <input type="radio"/> No</p>
<p>D02a_04. If no, why not participate?</p> <p>E D02a_03==2</p>	<p>SINGLE-SELECT D02a_04 01 <input type="radio"/> Cannot afford the payment 02 <input type="radio"/> Do not need electricity 03 <input type="radio"/> Maintenance/services of device is not available</p>

	04 <input type="radio"/> Do not have confidence in the quality of the system
D02a_05. Would you be willing to pay {300,000 MMK} for this solar device, if you were given 12 Months to make payment? Installment = 25,000MMK per month E D02a_03==2	SINGLE-SELECT D02a_05 01 <input type="radio"/> Yes 02 <input type="radio"/> No
D02a_06. If no, why not participate? E D02a_05==2	SINGLE-SELECT D02a_06 01 <input type="radio"/> Cannot afford the payment 02 <input type="radio"/> Do not need electricity 03 <input type="radio"/> Maintenance/services of device is not available 04 <input type="radio"/> Do not have confidence in the quality of the system
D02a_07. Would you be willing to pay {300,000 MMK} for this solar device, if you were given 24 Months to make payment? Installment = 12,500MMK per month E D02a_05==2	SINGLE-SELECT D02a_07 01 <input type="radio"/> Yes 02 <input type="radio"/> No
D02a_08. If no, why not participate? E D02a_07==2	SINGLE-SELECT D02a_08 01 <input type="radio"/> Cannot afford the payment 02 <input type="radio"/> Do not need electricity 03 <input type="radio"/> Maintenance/services of device is not available 04 <input type="radio"/> Do not have confidence in the quality of the system

D. WILLINGNESS TO PAY FOR ELECTRICITY / D.2 FOR SOLAR HOME SYSTEM / D.2 HIGH CAPACITY DEVICE 100 WP
D.2B 66% PAYMENT

E Quest.IRnd() >= 0.333333333 && Quest.IRnd() < 0.5

D02b_01. Would you be willing to pay 198,000MMK for this solar device?	SINGLE-SELECT D02b_01 01 <input type="radio"/> Yes 02 <input type="radio"/> No
D02b_03. Would you be willing to pay {198,000 MMK} for this solar device, if you were given 6 Months? Installment = 33,000MMK per month E D02b_01==2	SINGLE-SELECT D02b_03 01 <input type="radio"/> Yes 02 <input type="radio"/> No
D02b_04. If no, why not participate? E D02b_03==2	SINGLE-SELECT D02b_04 01 <input type="radio"/> Cannot afford the payment 02 <input type="radio"/> Do not need electricity 03 <input type="radio"/> Maintenance/services of device is not available 04 <input type="radio"/> Do not have confidence in the quality of the system
D02b_05. Would you be willing to pay {198,000 MMK} for this solar device, if you were given 12 Months? Installment = 16,500MMK per month E D02b_03==2	SINGLE-SELECT D02b_05 01 <input type="radio"/> Yes 02 <input type="radio"/> No
D02b_06. If no, why not participate? E D02b_05==2	SINGLE-SELECT D02b_06 01 <input type="radio"/> Cannot afford the payment 02 <input type="radio"/> Do not need electricity

	03 <input type="radio"/> Maintenance/services of device is not available 04 <input type="radio"/> Do not have confidence in the quality of the system	
D02b_07. Would you be willing to pay {198,000 MMK} for this solar device, if you were given 24 Months? Installment = 8,250MMK per month E D02b_05==2	SINGLE-SELECT 01 <input type="radio"/> Yes 02 <input type="radio"/> No	D02b_07
D02b_08. If no, why not participate? E D02b_07==2	SINGLE-SELECT 01 <input type="radio"/> Cannot afford the payment 02 <input type="radio"/> Do not need electricity 03 <input type="radio"/> Maintenance/services of device is not available 04 <input type="radio"/> Do not have confidence in the quality of the system	D02b_08

D. WILLINGNESS TO PAY FOR ELECTRICITY / D.2 FOR SOLAR HOME SYSTEM / D.2 HIGH CAPACITY DEVICE 100 WP
D.2C 33% PAYMENT

E Quest. IRnd() < 0.166666667

D02c_01. Would you be willing to pay 99,000MMK for this solar device? E D02c_01==2	SINGLE-SELECT 01 <input type="radio"/> Yes 02 <input type="radio"/> No	D02c_01
D02c_03. Would you be willing to pay {99,000 MMK} for this solar device, if you were given 6 Months? Installment = 16,500MMK per month E D02c_01==2	SINGLE-SELECT 01 <input type="radio"/> Yes 02 <input type="radio"/> No	D02c_03
D02c_04. If no, why not participate? E D02c_03==2	SINGLE-SELECT 01 <input type="radio"/> Cannot afford the payment 02 <input type="radio"/> Do not need electricity 03 <input type="radio"/> Maintenance/services of device is not available 04 <input type="radio"/> Do not have confidence in the quality of the system	D02c_04
D02c_05. Would you be willing to pay {99,000 MMK} for this solar device, if you were given 12 Months? Installment = 8,250MMK per month E D02c_03==2	SINGLE-SELECT 01 <input type="radio"/> Yes 02 <input type="radio"/> No	D02c_05
D02c_06. If no, why not participate? E D02c_05==2	SINGLE-SELECT 01 <input type="radio"/> Cannot afford the payment 02 <input type="radio"/> Do not need electricity 03 <input type="radio"/> Maintenance/services of device is not available 04 <input type="radio"/> Do not have confidence in the quality of the system	D02c_06
D02c_07. Would you be willing to pay {99,000 MMK} for this solar device, if you were given 24 Months? Installment = 4,125MMK per month E D02c_05==2	SINGLE-SELECT 01 <input type="radio"/> Yes 02 <input type="radio"/> No	D02c_07
D02c_08. If no, why not participate? E D02c_07==2	SINGLE-SELECT 01 <input type="radio"/> Cannot afford the payment 02 <input type="radio"/> Do not need electricity	D02c_08

- 03 Maintenance/services of device is not available
- 04 Do not have confidence in the quality of the system

D. WILLINGNESS TO PAY FOR ELECTRICITY / D.2 FOR SOLAR HOME SYSTEM
D.3 LOW CAPACITY DEVICE 45 WP

D. WILLINGNESS TO PAY FOR ELECTRICITY / D.2 FOR SOLAR HOME SYSTEM / D.3 LOW CAPACITY DEVICE 45 WP
D.3A 100% PAYMENT

E Quest . IRnd () >=0.833333333

<p>D03a_01. Would you be willing to pay 120,000MMK for this solar device?</p>	<p>SINGLE-SELECT D03a_01 01 <input type="radio"/> Yes 02 <input type="radio"/> No</p>
<p>D03a_03. Would you be willing to pay {120,000 MMK} for this solar device, if you were given 6 Months? Installment = 20,000MMK per month</p> <p>E D03a_01==2</p>	<p>SINGLE-SELECT D03a_03 01 <input type="radio"/> Yes 02 <input type="radio"/> No</p>
<p>D03a_04. If no, why not participate?</p> <p>E D03a_03==2</p>	<p>SINGLE-SELECT D03a_04 01 <input type="radio"/> Cannot afford the payment 02 <input type="radio"/> Do not need electricity 03 <input type="radio"/> Maintenance/services of device is not available 04 <input type="radio"/> Do not have confidence in the quality of the system</p>
<p>D03a_05. Would you be willing to pay {120,000 MMK} for this solar device, if you were given 12 Months? Installment = 10,000MMK per month</p> <p>E D03a_03==2</p>	<p>SINGLE-SELECT D03a_05 01 <input type="radio"/> Yes 02 <input type="radio"/> No</p>
<p>D03a_06. If no, why not participate?</p> <p>E D03a_05==2</p>	<p>SINGLE-SELECT D03a_06 01 <input type="radio"/> Cannot afford the payment 02 <input type="radio"/> Do not need electricity 03 <input type="radio"/> Maintenance/services of device is not available 04 <input type="radio"/> Do not have confidence in the quality of the system</p>
<p>D03a_07. Would you be willing to pay {120,000 MMK} for this solar device, if you were given 24 Months? Installment = 5,000MMK per month</p> <p>E D03a_05==2</p>	<p>SINGLE-SELECT D03a_07 01 <input type="radio"/> Yes 02 <input type="radio"/> No</p>
<p>D03a_08. If no, why not participate?</p> <p>E D03a_07==2</p>	<p>SINGLE-SELECT D03a_08 01 <input type="radio"/> Cannot afford the payment 02 <input type="radio"/> Do not need electricity 03 <input type="radio"/> Maintenance/services of device is not available 04 <input type="radio"/> Do not have confidence in the quality of the system</p>

D. WILLINGNESS TO PAY FOR ELECTRICITY / D.2 FOR SOLAR HOME SYSTEM / D.3 LOW CAPACITY DEVICE 45 WP
D.3B 66% PAYMENT

E Quest . IRnd () >=0.5 && Quest . IRnd () <0.666666667

<p>D03b_01. Would you be willing to pay 79,000MMK for this solar device?</p>	<p>SINGLE-SELECT D03b_01</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>D03b_03. Would you be willing to pay {79,000 MMK} for this solar device, if you were given 6 Months? Installment = 13,167MMK per month</p> <p>E D03b_01==2</p>	<p>SINGLE-SELECT D03b_03</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>D03b_04. If no, why not participate?</p> <p>E D03b_03==2</p>	<p>SINGLE-SELECT D03b_04</p> <p>01 <input type="radio"/> Cannot afford the payment</p> <p>02 <input type="radio"/> Do not need electricity</p> <p>03 <input type="radio"/> Maintenance/services of device is not available</p> <p>04 <input type="radio"/> Do not have confidence in the quality of the system</p>
<p>D03b_05. Would you be willing to pay {79,000 MMK} for this solar device, if you were given 12 Months? Installment = 6,583MMK per month</p> <p>E D03b_03==2</p>	<p>SINGLE-SELECT D03b_05</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>D03b_06. If no, why not participate?</p> <p>E D03b_05==2</p>	<p>SINGLE-SELECT D03b_06</p> <p>01 <input type="radio"/> Cannot afford the payment</p> <p>02 <input type="radio"/> Do not need electricity</p> <p>03 <input type="radio"/> Maintenance/services of device is not available</p> <p>04 <input type="radio"/> Do not have confidence in the quality of the system</p>
<p>D03b_07. Would you be willing to pay {79,000 MMK} for this solar device, if you were given 24 Months? Installment = 3,292MMK per month</p> <p>E D03b_05==2</p>	<p>SINGLE-SELECT D03b_07</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>D03b_08. If no, why not participate?</p> <p>E D03b_07==2</p>	<p>SINGLE-SELECT D03b_08</p> <p>01 <input type="radio"/> Cannot afford the payment</p> <p>02 <input type="radio"/> Do not need electricity</p> <p>03 <input type="radio"/> Maintenance/services of device is not available</p> <p>04 <input type="radio"/> Do not have confidence in the quality of the system</p>

D. WILLINGNESS TO PAY FOR ELECTRICITY / D.2 FOR SOLAR HOME SYSTEM / D.3 LOW CAPACITY DEVICE 45 WP
D.3C 33% PAYMENT

E Quest.IRnd() >=0.166666667 && Quest.IRnd() <0.333333333

<p>D03c_01. Would you be willing to pay 40,000MMK for this solar device?</p>	<p>SINGLE-SELECT D03c_01</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>D03c_03. Would you be willing to pay {40,000 MMK} for this solar device, if you were given 6 Months? Installment = 6,667MMK per month</p> <p>E D03c_01==2</p>	<p>SINGLE-SELECT D03c_03</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>D03c_04. If no, why not participate?</p> <p>E D03c_03==2</p>	<p>SINGLE-SELECT D03c_04</p> <p>01 <input type="radio"/> Cannot afford the payment</p> <p>02 <input type="radio"/> Do not need electricity</p> <p>03 <input type="radio"/> Maintenance/services of device is not available</p>

	04 <input type="radio"/> Do not have confidence in the quality of the system	
D03c_05. Would you be willing to pay {40,000 MMK} for this solar device, if you were given 12 Months? Installment = 3,333MMK per month E D03c_03==2	SINGLE-SELECT 01 <input type="radio"/> Yes 02 <input type="radio"/> No	D03c_05
D03c_06. If no, why not participate? E D03c_05==2	SINGLE-SELECT 01 <input type="radio"/> Cannot afford the payment 02 <input type="radio"/> Do not need electricity 03 <input type="radio"/> Maintenance/services of device is not available 04 <input type="radio"/> Do not have confidence in the quality of the system	D03c_06
D03c_07. Would you be willing to pay {40,000 MMK} for this solar device, if you were given 24 Months? Installment = 1,667MMK per month E D03c_05==2	SINGLE-SELECT 01 <input type="radio"/> Yes 02 <input type="radio"/> No	D03c_07
D03c_08. If no, why not participate? E D03c_07==2	SINGLE-SELECT 01 <input type="radio"/> Cannot afford the payment 02 <input type="radio"/> Do not need electricity 03 <input type="radio"/> Maintenance/services of device is not available 04 <input type="radio"/> Do not have confidence in the quality of the system	D03c_08

D. WILLINGNESS TO PAY FOR ELECTRICITY

D.4 WILLING TO CONTRIBUTE TO BUILD DISTRIBUTION NETWORK IN THE VILLAGE

D04_01. Would you be willing to contribute 300,000MMK – 400,000MMK to build distribution network in the village?	SINGLE-SELECT 01 <input type="radio"/> Yes 02 <input type="radio"/> No	D04_01
D04_02. Would you be willing to make contribution to build network in the village, if you are given to pay by installment? 1. 3 installment over 1 year E D04_01==2	SINGLE-SELECT 001 <input type="radio"/> Yes 002 <input type="radio"/> No 003 <input type="radio"/> May be 888 <input type="radio"/> Don't Know	D04_02
D04_03. If no, why not? E D04_02==2	SINGLE-SELECT 001 <input type="radio"/> Cannot afford the payment 002 <input type="radio"/> Do not need electricity 003 <input type="radio"/> Electricity service is unreliable 004 <input type="radio"/> Monthly fee is too expensive 555 <input type="radio"/> Other, specify	D04_03
D04_03Other. Other(Specify) E D04_03==555	TEXT	D04_03Other
D04_04. Would you be willing to make contribution to build network in the village, if you are given to pay by installment? 2. 6 installment over 2 years E D04_02==2	SINGLE-SELECT 001 <input type="radio"/> Yes 002 <input type="radio"/> No 003 <input type="radio"/> May be 888 <input type="radio"/> Don't Know	D04_04
D04_05. If no, why not?	SINGLE-SELECT 001 <input type="radio"/> Cannot afford the payment	D04_05

E D04_04==2	002 <input type="radio"/> Do not need electricity 003 <input type="radio"/> Electricity service is unreliable 004 <input type="radio"/> Monthly fee is too expensive 555 <input type="radio"/> Other, specify
D04_05Other. Other(Specify)	TEXT D04_05Other
E D04_05==555	
D04_06. Would you be willing to make contribution to build network in the village, if you are given to pay by installment? 3. 12 installment over 3 years. 6 installment over 2 years	SINGLE-SELECT D04_06 001 <input type="radio"/> Yes 002 <input type="radio"/> No 003 <input type="radio"/> May be 888 <input type="radio"/> Don't Know
E D04_04==2	
D04_07. If no, why not?	SINGLE-SELECT D04_07 001 <input type="radio"/> Cannot afford the payment 002 <input type="radio"/> Do not need electricity 003 <input type="radio"/> Electricity service is unreliable 004 <input type="radio"/> Monthly fee is too expensive 555 <input type="radio"/> Other, specify
E D04_06==2	
D04_07Other. Other(Specify)	TEXT D04_07Other
E D04_07==555	

E. CANDLE LIGHTING, DIESEL, KAROSENE FUEL FOR LAMP LIGHTING

Eresp1 Enumerator: Record Respondent ID for this section	SINGLE-SELECT: LINKED Eresp1
--	---

E. CANDLE LIGHTING, DIESEL, KAROSENE FUEL FOR LAMP LIGHTING E.1 CANDLE LIGHTING

E01_01. In the last 12 months, did you use Candle only for lighting in you home? (exclude religious)	SINGLE-SELECT E01_01 01 <input type="radio"/> Yes 02 <input type="radio"/> No
E01_02. In the last 12 months, how many months did you use CANDLE? _____ Number of months If "0" skip to ----	NUMERIC: INTEGER E01_02
E E01_01==1 V1 self>0 && self<=12 M1 >0 and <=12	
E01_02day. In the typical months that you use candle, how many days do you use CANDLE on average per month? _____ Number of days	NUMERIC: INTEGER E01_02day
E E01_01==1 V1 self>0 && self<=30 M1 >0 && <=30	
E01_03. In the typical month that you use candle, how many hours do you use CANDLE each day? _____ HOURS per day	NUMERIC: DECIMAL E01_03
E E01_01==1	

V1 self<=24 M1 Max24	
E01_04. In the typical month that you use Candle, what is the total quantity of CANDLE] you use in a typical week _____ Number of candles	NUMERIC: INTEGER E01_04 -----
E E01_01==1 && E01_02>0	
E01_05. In the typical month that you use candle, how much do you spend on CANDLE in a typical week _____ Kyats per week	NUMERIC: INTEGER E01_05 -----
E E01_01==1 && E01_02>0	
E01_06. What don't you like most about using the CANDLE? Record up to 2 responses	MULTI-SELECT E01_06
E E01_01==1	001 <input type="checkbox"/> Candle is expensive to use for lighting 002 <input type="checkbox"/> Accidents can happen 003 <input type="checkbox"/> Bad for health 004 <input type="checkbox"/> It's not bright enough 005 <input type="checkbox"/> Accident to Fire Hazard 555 <input type="checkbox"/> Other, specify 777 <input type="checkbox"/> No problems
E01_06Other. Other, specify	TEXT E01_06Other -----
E E01_06.Contains (555)	

E. CANDLE LIGHTING, DIESEL, KAROSENE FUEL FOR LAMP LIGHTING
E.2 LAMP LIGHTING

E. CANDLE LIGHTING, DIESEL, KAROSENE FUEL FOR LAMP LIGHTING / E.2 LAMP LIGHTING

Roster: LAMP LIGHTING

generated by fixed list

E2_LampLighting

- 01 Wick lamp
- 02 Hurricane Lantern (with Glass Cover)
- 03 Biogas Lamp

E02_01. In the last 12 months, did you use %rostertitle% for lighting?	SINGLE-SELECT E02_01 01 <input type="radio"/> Yes 02 <input type="radio"/> No
E02_01b. What type of fuel do you use for %rostertitle% ?	SINGLE-SELECT E02_01b 01 <input type="radio"/> Diesel 02 <input type="radio"/> Karosene 03 <input type="radio"/> Biogas
E E02_01==1	
E02_01a. In the last 12 months, how many months did you use %rostertitle% for lighting?	NUMERIC: INTEGER E02_01a -----
E E02_01==1 V1 self>0 && self<=12 M1 >0 and <=12	
E02_02. How much did you pay for %rostertitle%	NUMERIC: INTEGER E02_02 -----
E E02_01==1	
E02_03. In the typical month, how many of this	NUMERIC: INTEGER E02_03

<p>%rostertitle% do you use?</p> <p>E E02_01==1</p>	<p>-----</p>
<p>E02_05. In the typical month that you use this lamp, how many days did you use this lamp? _____ Days</p> <p>E E02_01==1 V1 self<=30 M1 Max 30</p>	<p>NUMERIC: INTEGER E02_05</p> <p>-----</p>
<p>E02_06. In the typical month that you use this lamp, how many hours do you use it each day? Hours per day</p> <p>E E02_01==1 V1 self<=24 M1 Max 24</p>	<p>NUMERIC: DECIMAL E02_06</p> <p>-----</p>
<p>E02_07. What don't you like most about using the %rostertitle%? Record up to 2 responses</p> <p>E E02_01==1</p>	<p>MULTI-SELECT E02_07</p> <p>001 <input type="checkbox"/> Lantern too expensive 002 <input type="checkbox"/> Fuel too expensive 003 <input type="checkbox"/> Fuel not available 004 <input type="checkbox"/> Accidents can happen 005 <input type="checkbox"/> Bad for health 006 <input type="checkbox"/> Its not bright enough 007 <input type="checkbox"/> Bad smell and smoke 008 <input type="checkbox"/> Accident to fire hazard 555 <input type="checkbox"/> Other, specify 777 <input type="checkbox"/> No problems</p>
<p>E02_07Other. Other(Specify)</p> <p>E E02_07.Contains(555)</p>	<p>TEXT E02_07Other</p> <p>-----</p>
<p>E02_08a. In the typical month that you use the above lamps, how many liters or gallon of diesel do you use to light these lamps? Amount</p> <p>E E02_01==1 && (@rowcode==1 @rowcode==2)</p>	<p>NUMERIC: INTEGER E02_08a</p> <p>-----</p>
<p>E02_08b. In the typical month that you use the above lamps, how many liters or gallon of diesel do you use to light these lamps?</p> <p>E E02_01==1 && (@rowcode==1 @rowcode==2)</p>	<p>SINGLE-SELECT E02_08b</p> <p>01 <input type="radio"/> Liter 02 <input type="radio"/> Gallon</p>
<p>E02_09. In the typical month that you use the above lamps, how much does you household spend per month for diesel that you use to light these lamps? _____ Kyats</p> <p>E E02_08a>0</p>	<p>NUMERIC: INTEGER E02_09</p> <p>-----</p>

STATIC TEXT

Instruction : All candle, kerosene/diesel lamp and biogas lamp users must answer E15 and E16

<p>E02_10. What is the main source of lighting the children who are currently enrolled in school usually use for studying/doing homework? Single response</p>	<p>SINGLE-SELECT E02_10</p> <p>001 <input type="radio"/> Electric lighting/lamp 002 <input type="radio"/> Solar powered light source 003 <input type="radio"/> Battery-operated light source 004 <input type="radio"/> Street lighting 005 <input type="radio"/> kerosene/diesel lamp 006 <input type="radio"/> Candles 007 <input type="radio"/> Biogas lamps 555 <input type="radio"/> Other, specify</p>
---	---

	777 <input type="radio"/> Studying and homework only during daylight hours
E02_10Other. Other, specify	TEXT E02_10Other
E E02_10==555	
E02_11. In the last 12 months, what type of harm/injury did any household members have from [LAMP/ CANDLE]? Multiple responses possible	MULTI-SELECT E02_11 001 <input type="checkbox"/> Death or permanent limb damage 002 <input type="checkbox"/> Burns/fire 003 <input type="checkbox"/> Poisoning 004 <input type="checkbox"/> Eye problems 005 <input type="checkbox"/> Respiratory problem 006 <input type="checkbox"/> Other major injury 007 <input type="checkbox"/> Minor injury 008 <input type="checkbox"/> Fire with no injury 777 <input type="checkbox"/> None

F. USE OF DRY CELL BATTERIES (SIZE D, AA, AAA AND OTHER SIZES)

Fresp1 Enumerator: Record Respondent ID for this section	SINGLE-SELECT: LINKED Fresp1
--	------------------------------

F. USE OF DRY CELL BATTERIES (SIZE D, AA, AAA AND OTHER SIZES) F.1 PRODUCTS USING DRY CELL BATTERY

F. USE OF DRY CELL BATTERIES (SIZE D, AA, AAA AND OTHER SIZES) / F.1 PRODUCTS USING DRY CELL BATTERY
Roster: PRODUCTS USING DRY CELL BATTERY
generated by fixed list

F1_DryCellBatteryProduct

- 001 a) Lantern
- 002 b) Lamp
- 003 c) Flash light/Tourch light
- 004 d) Radio
- 555 e) Other specify....

F01_01. In the last 12 months, did you use dry cell batteries for to power any of the %rostertitle% ?	SINGLE-SELECT F01_01 01 <input type="radio"/> Yes 02 <input type="radio"/> No
Other specify	TEXT F01_01Other
E F01_01==1 && @rowcode==555	
F01_02. How much do you pay for %rostertitle%?	NUMERIC: INTEGER F01_02 -----
E F01_01==1	
F01_03. In the month that you use, how many do you use? Number of %rostertitle%	NUMERIC: INTEGER F01_03 -----
E F01_01==1	
F01_04. In the month that you use, how many hours do you use each them per day? (more than one add hours of all devices used)	NUMERIC: INTEGER F01_04 -----

_____Hours	
E F01_01==1 && (@rowcode==1 @rowcode==2 @rowcode==4)	
F01_05. Do you use it as a regular source of lighting or as the backup when main source is not available?	SINGLE-SELECT F01_05 01 <input type="radio"/> Use it as the main source of lighting/radio 02 <input type="radio"/> Use as backup source of lighting/radio
E F01_01==1	

F. USE OF DRY CELL BATTERIES (SIZE D, AA, AAA AND OTHER SIZES)
F.2 DRY CELL BATTERY USAGE

F. USE OF DRY CELL BATTERIES (SIZE D, AA, AAA AND OTHER SIZES) / F.2 DRY CELL BATTERY USAGE

Roster: DRY CELL BATTERY USAGE

generated by fixed list

F2_DryCellBatteryUsage

- 001 D-Size
- 002 AA -Size
- 003 AAA -Size
- 555 Other size.....

F02_01. In the month that you use the above devices, how many %roster% dry cell batteries do you use per month number of batteries per month	NUMERIC: INTEGER F02_01 -----
Other specify	TEXT F02_01Other
E F02_01>=1 && @rowcode==555	
F02_02. Price per unit %roster%	NUMERIC: INTEGER F02_02 -----
E F02_01>=1	
F02_03. Total spending on %roster% dry-cell per month	NUMERIC: INTEGER F02_03 -----
E F02_01>=1	

G. HOUSEHOLD FUEL CONSUMPTION

STATIC TEXT

Respondent should be household member who most frequently cooks food for the household. First ask H.3 for all fuel types and then record the information in the following questions only for the fuel that is used.

Gresp1 Enumerator: Record Respondent ID for this section	SINGLE-SELECT: LINKED Gresp1
--	------------------------------

G. HOUSEHOLD FUEL CONSUMPTION
G.1 LPG

STATIC TEXT

During the past 12 months, has your household used LPG for any of the following purposes?

G01_01a. Cooking	SINGLE-SELECT G01_01a
------------------	-----------------------

	01 <input type="radio"/> Yes 02 <input type="radio"/> No
G01_01b. Boiling	SINGLE-SELECT G01_01b 01 <input type="radio"/> Yes 02 <input type="radio"/> No
G01_01c. Other (specify)	SINGLE-SELECT G01_01c 01 <input type="radio"/> Yes 02 <input type="radio"/> No
G01_01cOther. Other (specify)	TEXT G01_01cOther
E G01_01c==1	
G01_01d. Business activity	SINGLE-SELECT G01_01d 01 <input type="radio"/> Yes 02 <input type="radio"/> No

STATIC TEXT

LPG: MONTHLY EXPENDITURES AND QUANTITY USED *If answered "NO" to questions (G01_01a to G01_01d), Go to G.2*

G01_02. In a typical purchase, how many Viss of LPG does your household usually purchase (LOCAL UNITS)? ____ Viss	NUMERIC: INTEGER G01_02 -----
E G01_01a==1 G01_01b==1 G01_01c==1 G01_01d==1	
G01_03. What was the cost of LPG for the typical purchase?	NUMERIC: INTEGER G01_03 -----
E G01_01a==1 G01_01b==1 G01_01c==1 G01_01d==1	
G01_04. How many days does the LPG that you usually purchase in a typical purchase last?	NUMERIC: INTEGER G01_04 -----
E G01_01a==1 G01_01b==1 G01_01c==1 G01_01d==1	
G01_05. How many Viss of LPG does your household usually use in a month? _____ No. of Viss of LPG/month	NUMERIC: INTEGER G01_05 -----
E G01_01a==1 G01_01b==1 G01_01c==1 G01_01d==1	
G01_06. On an average, how much does your household spend on LPG per month? _____ _____ Kyats/Month	NUMERIC: INTEGER G01_06 -----
E G01_01a==1 G01_01b==1 G01_01c==1 G01_01d==1	

G. HOUSEHOLD FUEL CONSUMPTION

G.2 CHARCOAL

STATIC TEXT

INFORMATION ON CHARCOAL USAGE *During the past 12 months, has your household use charcoal for any of the following purposes?*

G02_01a. Cooking	SINGLE-SELECT G02_01a 01 <input type="radio"/> Yes 02 <input type="radio"/> No
G02_01b. Boiling Water (for consumption)	SINGLE-SELECT G02_01b 01 <input type="radio"/> Yes 02 <input type="radio"/> No

G02_01c. Heating Water (for bathing, washing, and similar activities)	SINGLE-SELECT G02_01c 01 <input type="radio"/> Yes 02 <input type="radio"/> No
G02_01d. Space Heating	SINGLE-SELECT G02_01d 01 <input type="radio"/> Yes 02 <input type="radio"/> No
G02_01e. Other (specify)	SINGLE-SELECT G02_01e 01 <input type="radio"/> Yes 02 <input type="radio"/> No
G02_01eOther. Other (specify) E G02_01e==1	TEXT G02_01eOther
G02_01f. Business Activities	SINGLE-SELECT G02_01f 01 <input type="radio"/> Yes 02 <input type="radio"/> No
G02_02. In a typical purchase, how many LOCAL UNITS of charcoal does your household usually purchase? E G02_01a==1 G02_01b==1 G02_01c==1 G02_01d==1 G02_01e==1 G02_01f==1	NUMERIC: INTEGER G02_02 -----
G02_03. In the typical purchase, how much does it cost? E G02_01a==1 G02_01b==1 G02_01c==1 G02_01d==1 G02_01e==1 G02_01f==1	NUMERIC: INTEGER G02_03 -----
G02_04. How many days does it lasts? E G02_01a==1 G02_01b==1 G02_01c==1 G02_01d==1 G02_01e==1 G02_01f==1	NUMERIC: INTEGER G02_04 -----
G02_05. On an average, how many Viss of charcoal do you use in a month? _____ Viss/Month E G02_01a==1 G02_01b==1 G02_01c==1 G02_01d==1 G02_01e==1 G02_01f==1	NUMERIC: INTEGER G02_05 -----
G02_06. On an average, how much does your household spend on charcoal per month? _____ Kyts/Month E G02_01a==1 G02_01b==1 G02_01c==1 G02_01d==1 G02_01e==1 G02_01f==1	NUMERIC: INTEGER G02_06 -----

G. HOUSEHOLD FUEL CONSUMPTION
G.3 FIREWOOD

STATIC TEXT

INFORMATION ON FIREWOOD AND/OR CROP RESIDUE USAGE During the past 12 months, does your household use FIREWOOD for any of the following purposes?

G03_01a. Cooking	SINGLE-SELECT G03_01a 01 <input type="radio"/> Yes 02 <input type="radio"/> No
G03_01b. Boiling Water (for consumption)	SINGLE-SELECT G03_01b

	01 <input type="radio"/> Yes 02 <input type="radio"/> No
G03_01c. Heating Water (for bathing, washing, and similar activities)	SINGLE-SELECT G03_01c 01 <input type="radio"/> Yes 02 <input type="radio"/> No
G03_01d. Space Heating	SINGLE-SELECT G03_01d 01 <input type="radio"/> Yes 02 <input type="radio"/> No
G03_01e. Other (specify)	SINGLE-SELECT G03_01e 01 <input type="radio"/> Yes 02 <input type="radio"/> No
G03_01eOther. Other (specify)	TEXT G03_01eOther
E G03_01e==1	
G03_01f. Business Activities	SINGLE-SELECT G03_01f 01 <input type="radio"/> Yes 02 <input type="radio"/> No
G03_02. How does your household obtain firewood to use at home?	SINGLE-SELECT G03_02 01 <input type="radio"/> Collect Only 02 <input type="radio"/> Purchase Only 03 <input type="radio"/> Purchase and Collect
E G03_01a==1 G03_01b==1 G03_01c==1 G03_01d==1 G03_01e==1 G03_01f==1	

G. HOUSEHOLD FUEL CONSUMPTION / G.3 FIREWOOD

G.3.A PURCHASE OF FIREWOOD

E G03_02==2 || G03_02==3

G03a01. In a typical purchase, how many Viss of firewood does your household usually purchase?	NUMERIC: INTEGER G03a01 -----
G03a02. How much it costs?	NUMERIC: INTEGER G03a02 -----
G03a03. How many days does the typical purchase lasts?	NUMERIC: INTEGER G03a03 -----
G03a04. On an average, how much does your household spend on firewood per month?Days	NUMERIC: INTEGER G03a04 -----
G03a05. On average, how many Viss OF FIREWOOD does your household used per month?	NUMERIC: INTEGER G03a05 -----

G. HOUSEHOLD FUEL CONSUMPTION / G.3 FIREWOOD

G.3.B FIREWOOD COLLECTION

E G03_02==1 || G03_02==3

G03b02. In a typical collection, what is the AVERAGE WEIGHT does your household usually collect?	NUMERIC: INTEGER G03b02 -----
--	---

G03b03. How many total days does the typical collection of firewood last?	NUMERIC: INTEGER -----	G03b03
G03b04. How many Viss of firewood that your household collects are used in a month? _____ Units/Month	NUMERIC: INTEGER -----	G03b04

G. HOUSEHOLD FUEL CONSUMPTION
G.4 CROP RESIDUE OR AGRICULTURAL WASTE

G04_01. How does your household obtain crop residue or agricultural waste to use at home?	SINGLE-SELECT 01 <input type="radio"/> Collect Only 02 <input type="radio"/> Purchase Only 03 <input type="radio"/> Purchase and Collect 04 <input type="radio"/> Other specify 05 <input type="radio"/> Do not use	G04_01
---	--	--------

G. HOUSEHOLD FUEL CONSUMPTION / G.4 CROP RESIDUE OR AGRICULTURAL WASTE
G.4.A PURCHASE OF CROP RESIDUE OR AGRICULTURAL WASTE

E G04_01==2 || G04_01==3

G04a01. In a typical purchase, how many LOCAL UNITS of CROP RESIDUE does your household usually purchase? (if respondent collects in other type of unit other than viss, probe respondent to give estimate of weight) _____ Viss	NUMERIC: INTEGER -----	G04a01
G04a02. How much it costs? _____ Kyats	NUMERIC: INTEGER -----	G04a02
G04a03. How many days does the typical purchase lasts? _____ Days	NUMERIC: INTEGER -----	G04a03
G04a04. On average, how much does your household spend on crop residue per month? _____ KYATS./month (Enter average spending per month, or "0" if it is already included in spending for firewood"	NUMERIC: INTEGER -----	G04a04
G04a05. On average, how many Viss OF crop residue does your household used per month? _____ Units/Month	NUMERIC: INTEGER -----	G04a05

G. HOUSEHOLD FUEL CONSUMPTION / G.4 CROP RESIDUE OR AGRICULTURAL WASTE
G.4.B CROP RESIDUE OR AGRICULTURAL WASTE COLLECTION

E G04_01==1 || G04_01==3

G04b01. In addition to firewood, does your household COLLECT agricultural waste/residue to use as fuel?	SINGLE-SELECT 01 <input type="radio"/> Yes 02 <input type="radio"/> No	G04b01
G04b02. Agricultural waste/crop residue that you collect is usually used	SINGLE-SELECT 001 <input type="radio"/> As main fuel	G04b02

- 002 To supplement firewood
- 003 To start fire
- 555 Other, specify_____

G04b02Other. Other (specify)	TEXT G04b02Other
E G04b02==555

G. HOUSEHOLD FUEL CONSUMPTION
G.5 BIOMASS BRIQUETTE

STATIC TEXT

INFORMATION ON BIOMASS BRIQUETTE USAGE During the past 12 months, has your household use biomass briquette for any of the following purposes?

G05_01a. Cooking	SINGLE-SELECT G05_01a 01 <input type="radio"/> Yes 02 <input type="radio"/> No
G05_01b. Boiling Water (for consumption)	SINGLE-SELECT G05_01b 01 <input type="radio"/> Yes 02 <input type="radio"/> No
G05_01c. Heating Water (for bathing, washing, and similar activities)	SINGLE-SELECT G05_01c 01 <input type="radio"/> Yes 02 <input type="radio"/> No
G05_01d. Space Heating	SINGLE-SELECT G05_01d 01 <input type="radio"/> Yes 02 <input type="radio"/> No
G05_01e. Other (specify)	SINGLE-SELECT G05_01e 01 <input type="radio"/> Yes 02 <input type="radio"/> No
G05_01eOther. Other Specify	TEXT G05_01eOther
E G05_01e==1
G05_01f. Business Activities	SINGLE-SELECT G05_01f 01 <input type="radio"/> Yes 02 <input type="radio"/> No
G05_02. In a typical purchase, how many Viss of biomass briquette does your household usually purchase?	NUMERIC: INTEGER G05_02 -----
E G05_01a==1 G05_01b==1 G05_01c==1 G05_01d==1 G05_01e==1 G05_01f==1	
G05_03. In the typical purchase, how much does it cost?	NUMERIC: INTEGER G05_03 -----
E G05_01a==1 G05_01b==1 G05_01c==1 G05_01d==1 G05_01e==1 G05_01f==1	
G05_04. How many days does it lasts?	NUMERIC: INTEGER G05_04 -----
E G05_01a==1 G05_01b==1 G05_01c==1 G05_01d==1 G05_01e==1 G05_01f==1	
G05_05. On an average, how many Viss of biomass briquette do you use in a month?	NUMERIC: INTEGER G05_05 -----
E G05_01a==1 G05_01b==1 G05_01c==1 G05_01d==1	

G05_01e==1 || G05_01f==1

G05_06. On an average, how much does your household spend on biomass briquette per month?

NUMERIC: INTEGER

G05_06

E G05_01a==1 || G05_01b==1 || G05_01c==1 || G05_01d==1 || G05_01e==1 || G05_01f==1

G. HOUSEHOLD FUEL CONSUMPTION
G.6 COAL BRIQUETTE

STATIC TEXT

INFORMATION ON COAL BRIQUETTE USAGE During the past 12 months, has your household use coal briquette for any of the following purposes?

G06_01a. Cooking

SINGLE-SELECT

G06_01a

- 01 Yes
- 02 No

G06_01b. Boiling Water (for consumption)

SINGLE-SELECT

G06_01b

- 01 Yes
- 02 No

G06_01c. Heating Water (for bathing, washing, and similar activities)

SINGLE-SELECT

G06_01c

- 01 Yes
- 02 No

G06_01d. Space Heating

SINGLE-SELECT

G06_01d

- 01 Yes
- 02 No

G06_01e. Other (specify)

SINGLE-SELECT

G06_01e

- 01 Yes
- 02 No

G06_01eOther. Other Specify

TEXT

G06_01eOther

E G06_01e==1

G06_01f. Business Activities

SINGLE-SELECT

G06_01f

- 01 Yes
- 02 No

G06_02. In a typical purchase, how many LOCAL UNITS of coal briquette does your household usually purchase?

NUMERIC: INTEGER

G06_02

E G06_01a==1 || G06_01b==1 || G06_01c==1 || G06_01d==1 || G06_01e==1 || G06_01f==1

G06_03. In the typical purchase, how much does it cost?

NUMERIC: INTEGER

G06_03

E G06_01a==1 || G06_01b==1 || G06_01c==1 || G06_01d==1 || G06_01e==1 || G06_01f==1

G06_04. How many days does it lasts?

NUMERIC: INTEGER

G06_04

E G06_01a==1 || G06_01b==1 || G06_01c==1 || G06_01d==1 || G06_01e==1 || G06_01f==1

G06_05. On an average, how many UNITS of coal briquette does your use in a month?

NUMERIC: INTEGER

G06_05

E G06_01a==1 G06_01b==1 G06_01c==1 G06_01d==1 G06_01e==1 G06_01f==1	-----
G06_06. On an average, how much does your house spend on coal briquette per month?	NUMERIC: INTEGER G06_06
E G06_01a==1 G06_01b==1 G06_01c==1 G06_01d==1 G06_01e==1 G06_01f==1	-----

G. HOUSEHOLD FUEL CONSUMPTION
G.7 ELECTRICITY FOR COOKING

STATIC TEXT

INFORMATION ON ELECTRICITY USAGE During the past 12 months, has your household used electricity and electric cooking appliance(s) for any of the following purposes?

G07_01a. Electric hot plate or stove/oven to Cook Food	SINGLE-SELECT G07_01a 01 <input type="radio"/> Yes 02 <input type="radio"/> No
G07_01b. Electric hot plate or stove/oven to Boil Water	SINGLE-SELECT G07_01b 01 <input type="radio"/> Yes 02 <input type="radio"/> No
G07_01c. Use Electric Rice Cooker to Cook Rice	SINGLE-SELECT G07_01c 01 <input type="radio"/> Yes 02 <input type="radio"/> No
G07_01d. Use electric kettle/electric hot water dispenser to boil water	SINGLE-SELECT G07_01d 01 <input type="radio"/> Yes 02 <input type="radio"/> No
G07_01e. Use electric hot pot/wok to cook food	SINGLE-SELECT G07_01e 01 <input type="radio"/> Yes 02 <input type="radio"/> No
G07_01f. Other (specify)	SINGLE-SELECT G07_01f 01 <input type="radio"/> Yes 02 <input type="radio"/> No
G07_01fOther. Other Specify	TEXT G07_01fOther -----
E G07_01f==1	

H. COOKING AND HEATING SOLUTIONS

STATIC TEXT

Instructions: The respondent should be the household member who most frequently cooks food for the household, as identified in A.12

H. COOKING AND HEATING SOLUTIONS
H.1 ABOUT COOK STOVES USING AT HOME

H. COOKING AND HEATING SOLUTIONS / H.1 ABOUT COOK STOVES USING AT HOME
Roster: COOK STOVE USING AT HOME
generated by fixed list

H1A_UseCookStove

- 01 1. 3/5 Stones Stove
- 02 2. Fixed or Self Made Stove
- 03 3. Ceramic Stove
- 04 4. Ceramic Stove (in metal bucket)
- 05 5. Traditional metal stove
- 06 6. Metal Stove
- 07 7. New Metal Stove
- 08 8. Carved stone stove
- 09 9. Rice Husk Stove
- 10 10. Electric hot plate or Electric Stove
- 11 11. LPG Stove

<p>H01_01a. In the last 12 months, %rostartitle% did your household use for only preparing meals?</p>	<p>SINGLE-SELECT H01_01a</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>H01_01b. How many of %rostartitle% type of cookstove are you currently using?</p> <p>E H01_01a==1 V1 self>0 M1 No zero</p>	<p>NUMERIC: INTEGER H01_01b</p> <p>-----</p>

H. COOKING AND HEATING SOLUTIONS / H.1 ABOUT COOK STOVES USING AT HOME / COOK STOVE USING AT HOME

Roster: COOKESTOVE DETAIL

generated by numeric question [H01_01b](#)

H1B_UseCookStoveDetail

<p>H01_02. How long (in months) have you been using this type of cookstove?</p> <p>_____ Months</p>	<p>NUMERIC: INTEGER H01_02</p> <p>-----</p>
<p>H01_02_a. In the last 12 months, during which of the following months did you use %rostartitle%?</p>	<p>MULTI-SELECT H01_02_a</p> <p>01 <input type="checkbox"/> January (ပုဉ္ဗဲသိုဝ် - ဆော့ငး)</p> <p>02 <input type="checkbox"/> February (တပို့တိုဝ် - ဆော့ငး)</p> <p>03 <input type="checkbox"/> March (တပေၤခါး - န့ဝ်)</p> <p>04 <input type="checkbox"/> April (တန့ၤခါး - န့ဝ်)</p> <p>05 <input type="checkbox"/> May (ကဆုၤန့ၤ - န့ဝ်)</p> <p>06 <input type="checkbox"/> June (န့ၤယုၤန့ၤ - မိုဝ်)</p> <p>07 <input type="checkbox"/> July (ဝါၤခါး - မိုဝ်)</p> <p>08 <input type="checkbox"/> August (ဝါၤခါးခါး - မိုဝ်)</p> <p>09 <input type="checkbox"/> September (တောၤသလဲၤ - မိုဝ်)</p> <p>10 <input type="checkbox"/> October (သီတဲၤကၤတၢၢ် - မိုဝ်)</p> <p>11 <input type="checkbox"/> November (တန့ၤဆော့ၤန့ၤန့ၤ - ဆော့ငး)</p> <p>12 <input type="checkbox"/> December (နတဲၤတောၤ - ဆော့ငး)</p> <p>13 <input type="checkbox"/> All year round</p>
<p>H01_02_b. Is the [STOVE] fixed in one place or moveable?</p>	<p>SINGLE-SELECT H01_02_b</p> <p>01 <input type="radio"/> fixed in one place</p> <p>02 <input type="radio"/> moveable</p>
<p>H01_03. How much did you pay for this stove? Enter 0if it is given to you free of charge</p> <p>_____ Kyats</p>	<p>NUMERIC: INTEGER H01_03</p> <p>-----</p>
<p>H01_03_a. Who gave %rostartitle% cookstove to you?</p>	<p>MULTI-SELECT H01_03_a</p>

E H01_03==0	001 <input type="checkbox"/> Local private organizations (NGO) 002 <input type="checkbox"/> International non-government organizations (INGO) 003 <input type="checkbox"/> Chief of village 004 <input type="checkbox"/> Local government 005 <input type="checkbox"/> Friend/Relatives 888 <input type="checkbox"/> Don't know 555 <input type="checkbox"/> Others, specify
H01_03_aOther. Other(Specify)	TEXT H01_03_aOther
E H01_03_a.Contains (555)	
H01_03_b. Did you receive training or information on %rostertitle%?	SINGLE-SELECT H01_03_b 01 <input type="radio"/> Yes 02 <input type="radio"/> No
H01_04. How many burners does this stove have? Number of Burners_____	NUMERIC: INTEGER H01_04 -----
H01_05. Where do you cook your meals with this cookstove?	SINGLE-SELECT H01_05 001 <input type="radio"/> In the kitchen separated from living area 002 <input type="radio"/> In the kitchen connected to the living area 003 <input type="radio"/> In a separate dwelling 004 <input type="radio"/> In a veranda (roofed platform with at least two open sides) 005 <input type="radio"/> Outdoors 555 <input type="radio"/> Other, specify
H01_05Other. Other(Specify)	TEXT H01_05Other
E H01_05==555	
H01_06. Do you use a chimney, or hood, or other exhaust system while using this stove?	SINGLE-SELECT H01_06 01 <input type="radio"/> Yes 02 <input type="radio"/> No
E H01_05.InList (1,2,3,555)	
H01_07. Do you regularly clean a chimney, hood or other exhaust system?	SINGLE-SELECT H01_07 01 <input type="radio"/> Yes 02 <input type="radio"/> No
E H01_06==1	
H01_08. How much time do household members spend preparing the [STOVE] and fuel for each meal on average [including setting up the fuel and turning on the stove but not including gathering fuel or cooking time]? Minutes	NUMERIC: INTEGER H01_08 -----
H01_09. In the last 7 days, on average, how many times did you light [STOVE] per day?	NUMERIC: INTEGER H01_09 -----
H01_10. In the last 7 days, how many days per week do you use this cookstove? Days/week	NUMERIC: INTEGER H01_10 -----
V1 self<=7 M1 Max 7	
H01_11a. In the last 7 days, on average, how much time did your household use [STOVE] per	NUMERIC: INTEGER H01_11a -----

<p>day to cook or reheat meals (do not include boiling water) in the... Morning Minutes</p> <p>V1 self<1440 M1 Cannot exceed 1,440 minutes per day</p>	
<p>H01_11b. In the last 7 days, on average, how much time did your household use [STOVE] per day to cook or reheat meals (do not include boiling water) in the... Afternoon Minutes</p> <p>V1 self<1440 M1 Cannot exceed 1,440 minutes per day</p>	<p>NUMERIC: INTEGER H01_11b</p> <p>-----</p>
<p>H01_11c. In the last 7 days, on average, how much time did your household use [STOVE] per day to cook or reheat meals (do not include boiling water) in the... Evening Minutes</p> <p>V1 self<1440 M1 Cannot exceed 1,440 minutes per day</p>	<p>NUMERIC: INTEGER H01_11c</p> <p>-----</p>
<p>H01_11d. In the last 7 days, on average, how much time did your household use [STOVE] per day to boil water (for cooking, washing, and drinking)?</p> <p>V1 self<1440 M1 Cannot exceed 1,440 minutes per day (60*24)</p>	<p>NUMERIC: INTEGER H01_11d</p> <p>-----</p>
<p>H01_12. Do you also use this stove for space heating?</p> <p>E (@rowcode!=10 @rowcode!=11)</p>	<p>SINGLE-SELECT H01_12</p> <p>01 <input type="radio"/> Yes 02 <input type="radio"/> No</p>
<p>H01_13. During the last winter months, how many days do you use this stove for heating?</p> <p>E (@rowcode!=10 @rowcode!=11) && H01_12==1</p>	<p>NUMERIC: INTEGER H01_13</p> <p>-----</p>
<p>H01_14. During the last winter months, how many minutes per day did you use this stove for heating?</p> <p>E (@rowcode!=10 @rowcode!=11) && H01_12==1</p>	<p>NUMERIC: INTEGER H01_14</p> <p>-----</p>
<p>H01_15. In the last 12 months, what type of harm/injury did your household face from this cookstove? Multiple responses possible.</p>	<p>MULTI-SELECT H01_15</p> <p>01 <input type="checkbox"/> Death or permanent damage 02 <input type="checkbox"/> Burns/fire/ poisoning 03 <input type="checkbox"/> Severe cough/respiratory problem 04 <input type="checkbox"/> Other major injury 05 <input type="checkbox"/> Minor injury 06 <input type="checkbox"/> Fire with no injury 07 <input type="checkbox"/> Itchy/watery eyes 08 <input type="checkbox"/> Light Cough 09 <input type="checkbox"/> None</p>
<p>H01_16. Who decide to buy or replace the old one with this stove?</p>	<p>SINGLE-SELECT H01_16</p> <p>001 <input type="radio"/> Wife 002 <input type="radio"/> Husband 003 <input type="radio"/> Both husband and wife 555 <input type="radio"/> Other(Specify)</p>
<p>H01_16Other. Other(Specify)</p> <p>E H01_16==555</p>	<p>TEXT H01_16Other</p> <p>-----</p>

<p>H01_17. Did you use this type of cookstove before?</p>	<p>SINGLE-SELECT H01_17</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>H01_18. How many months did your previous cookstove lasts? Months</p> <p>E H01_17==1</p>	<p>NUMERIC: INTEGER H01_18</p> <p>-----</p>
<p>STATIC TEXT</p> <p><i>Ask each question for the most used and second most used fuel for this cookstove as identified in H1 1 to 9 If no second fuel, only ask about the most used fuel. a. Most used b. Second most used</i></p>	
<p>H01_19a. [Most used] In the last 12 months, what are the fuels you used on [STOVE]?</p>	<p>SINGLE-SELECT H01_19a</p> <p>01 <input type="radio"/> Wood purchased</p> <p>02 <input type="radio"/> Wood collected</p> <p>03 <input type="radio"/> Charcoal</p> <p>04 <input type="radio"/> Solar</p> <p>05 <input type="radio"/> Kerosene</p> <p>06 <input type="radio"/> Piped Natural Gas</p> <p>07 <input type="radio"/> Coal/ignite</p> <p>08 <input type="radio"/> Animal Waste/Dung</p> <p>09 <input type="radio"/> Crop residue/Plant Biomass</p> <p>10 <input type="radio"/> Saw dust</p> <p>11 <input type="radio"/> Coal Briquette</p> <p>12 <input type="radio"/> Biomass briquette</p> <p>13 <input type="radio"/> Electric</p> <p>14 <input type="radio"/> Pellets/Woodchips (processed biomass)</p> <p>15 <input type="radio"/> Biogas</p> <p>16 <input type="radio"/> Ethanol</p> <p>And 2 other [8]</p>
<p>H01_19aOther. Other(Specify)</p> <p>E H01_19a==555</p>	<p>TEXT H01_19aOther</p> <p>-----</p>
<p>H01_19b. [Second Most used] In the last 12 months, what are the fuels you used on [STOVE]?</p> <p>E H01_19a!= 4 H01_19a!= 6 H01_19a!= 13 H01_19a!= 15</p>	<p>SINGLE-SELECT H01_19b</p> <p>001 <input type="radio"/> Wood purchased</p> <p>002 <input type="radio"/> Wood collected</p> <p>003 <input type="radio"/> Charcoal</p> <p>004 <input type="radio"/> Solar</p> <p>005 <input type="radio"/> Kerosene</p> <p>006 <input type="radio"/> Piped Natural Gas</p> <p>007 <input type="radio"/> Coal/ignite</p> <p>008 <input type="radio"/> Animal Waste/Dung</p> <p>009 <input type="radio"/> Crop residue/Plant Biomass</p> <p>010 <input type="radio"/> Saw dust</p> <p>011 <input type="radio"/> Coal Briquette</p> <p>012 <input type="radio"/> Biomass briquette</p> <p>013 <input type="radio"/> Electric</p> <p>014 <input type="radio"/> Pellets/Woodchips (processed biomass)</p> <p>015 <input type="radio"/> Biogas</p> <p>016 <input type="radio"/> Ethanol</p> <p>And 3 other [9]</p>
<p>H01_19bOther. Other(Specify)</p> <p>E H01_19b==555</p>	<p>TEXT H01_19bOther</p> <p>-----</p>
<p>Is this [stove] main cook stove?</p>	<p>SINGLE-SELECT H01_19c</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>

<p>H02_08a. How much do you spend on the [FUEL TYPE] for this stove in the last month/in a typical month when you use the stove? Enter the actual amount spent, not the market value of the fuel. a. Most used Amount in Local Currency</p> <p>E H01_19c==1</p>	<p>NUMERIC: INTEGER H02_08a</p> <p>-----</p>
<p>H02_08b. How much do you spend on the [FUEL TYPE] for this stove in the last month/in a typical month when you use the stove? Enter the actual amount spent, not the market value of the fuel. b. Second most used Amount in Local Currency</p> <p>E H01_19c==1</p>	<p>NUMERIC: INTEGER H02_08b</p> <p>-----</p>
<p>H01_19d. Why do you not use [STOVE] most of the time?</p> <p>E H01_19c==2</p>	<p>MULTI-SELECT H01_19d</p> <p>001 <input type="checkbox"/> Electricity/fuel for this stove unavailable</p> <p>002 <input type="checkbox"/> Electricity/fuel for this stove too expensive</p> <p>003 <input type="checkbox"/> Certain type of cooking is not possible with this stove</p> <p>004 <input type="checkbox"/> Cookstove does not have enough burners</p> <p>005 <input type="checkbox"/> Cookstove flame is too weak</p> <p>006 <input type="checkbox"/> Stove takes a long time to cook food</p> <p>007 <input type="checkbox"/> Electricity/fuel takes a long time to prepare</p> <p>008 <input type="checkbox"/> Stove is difficult/inconvenient to use</p> <p>009 <input type="checkbox"/> Too expensive or often not available</p> <p>010 <input type="checkbox"/> Certain type of meals taste better with another stove</p> <p>555 <input type="checkbox"/> Other, specify</p>
<p>H01_19dOther. Other(Specify)</p> <p>E H01_19d.Contains (555)</p>	<p>TEXT H01_19dOther</p> <p>-----</p>

H. COOKING AND HEATING SOLUTIONS / H.1 ABOUT COOK STOVES USING AT HOME / COOK STOVE USING AT HOME / COOKESTOVE DETAIL
H.2 MAIN COOK STOVE

<p>E H01_19c==1</p> <p>H02_01. Enumerator: based on responses to I.15 and I.18 does the HH use any solid fuels indoors?</p>	<p>SINGLE-SELECT H02_01</p> <p>001 <input type="radio"/> Yes</p> <p>002 <input type="radio"/> No</p> <p>888 <input type="radio"/> Don't Know</p>
<p>H02_02. Record the rough shape of the cooking space</p>	<p>SINGLE-SELECT H02_02</p> <p>01 <input type="radio"/> Roughly square</p> <p>02 <input type="radio"/> Roughly rectangular</p> <p>03 <input type="radio"/> Roughly Circular</p> <p>04 <input type="radio"/> None of the above</p>
<p>H02_03a. Record the dimensions of the cooking space in heel-to-toe paces. Square, record one side ____ paces</p> <p>E H02_02==1</p> <p>V1 self>=2 && self<=20</p>	<p>NUMERIC: INTEGER H02_03a</p> <p>-----</p>

<p>M1 between 2 and 20</p> <p>H02_03b1. Record the dimensions of the cooking space in heel-to-toe paces. Rectangle, record both sides 1. Length ___ paces</p> <p>E H02_02==2 V1 self>=2 && self<=20 M1 between 2 and 20</p>	<p>NUMERIC: INTEGER H02_03b1</p> <p>-----</p>
<p>H02_03b2. Record the dimensions of the cooking space in heel-to-toe paces. Rectangle, record both sides 2. Width ___ paces</p> <p>E H02_02==2 V1 self>=2 && self<=20 M1 between 2 and 20</p>	<p>NUMERIC: INTEGER H02_03b2</p> <p>-----</p>
<p>H02_03c. Record the dimensions of the cooking space in heel-to-toe paces. Circle, record diameter ___ paces</p> <p>E H02_02==3 V1 self>=2 && self<=20 M1 between 2 and 20</p>	<p>NUMERIC: INTEGER H02_03c</p> <p>-----</p>
<p>H02_03d. Record the dimensions of the cooking space in heel-to-toe paces.</p> <p>E H02_02==4</p>	<p>TEXT H02_03d</p> <p>.....</p>
<p>H02_04. Record the type of roof covering the cooking space</p>	<p>SINGLE-SELECT H02_04</p> <p>01 <input type="radio"/> Flat 02 <input type="radio"/> Roughly Conical 03 <input type="radio"/> Gable (triangular cross-section) 04 <input type="radio"/> None of the above 05 <input type="radio"/> No roof covering</p>
<p>H02_05. Estimate the height of the highest point of the ceiling relative to your own height</p> <p>E H02_04!=5</p>	<p>SINGLE-SELECT H02_05</p> <p>01 <input type="radio"/> Smaller than me 02 <input type="radio"/> My height 03 <input type="radio"/> 1.5 x my height 04 <input type="radio"/> 2 x my height 05 <input type="radio"/> More than 2 x my height</p>
<p>H02_06. How many doors and windows (opening to the outside) does the cooking space have? Number of Openings</p>	<p>NUMERIC: INTEGER H02_06</p> <p>-----</p>
<p>Photo. Can you show me the cookstove you spend the most time cooking on? This is the MAIN cookstove, take a picture of the stove and ask the following questions about only this cookstove. Record Cookstove ID from previous table</p>	<p>PICTURE MainCookStove</p>
<p>Hresp1 Enumerator: Record Respondent ID for this section</p>	<p>SINGLE-SELECT: LINKED Hresp1</p>

H. COOKING AND HEATING SOLUTIONS
H.3 SPACE AND WATER HEATING

<p>H03_01. Do you heat water for washing (either for washing dishes and clothes or for bathing)?</p>	<p>SINGLE-SELECT H03_01</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>H03_02. What is the main source you use to heat water? Select one</p> <p>E H03_01==1</p>	<p>SINGLE-SELECT H03_02</p> <p>01 <input type="radio"/> Electric kettle/coil</p> <p>02 <input type="radio"/> Electric stove</p> <p>03 <input type="radio"/> Electric shower</p> <p>04 <input type="radio"/> Gas stove</p> <p>05 <input type="radio"/> Same solid fuel stove used for cooking</p> <p>06 <input type="radio"/> Separate solid fuel stove</p>
<p>H03_03. What is the MAIN fuel you use in this stove?</p> <p>E H03_01==1 && H03_02.InList(3,4,5)</p>	<p>SINGLE-SELECT H03_03</p> <p>001 <input type="radio"/> LPG/cooking gas</p> <p>002 <input type="radio"/> Wood purchased</p> <p>003 <input type="radio"/> Wood collected</p> <p>004 <input type="radio"/> Charcoal</p> <p>006 <input type="radio"/> Kerosene</p> <p>007 <input type="radio"/> Piped Natural Gas</p> <p>008 <input type="radio"/> Coal/lignite</p> <p>009 <input type="radio"/> Animal Waste/Dung</p> <p>010 <input type="radio"/> Crop Residue/Plant Biomass</p> <p>011 <input type="radio"/> Saw Dust</p> <p>012 <input type="radio"/> Coal Briquette</p> <p>013 <input type="radio"/> Biomass Briquette</p> <p>014 <input type="radio"/> Electric</p> <p>015 <input type="radio"/> Processed biomass (pellets)/ woodchips</p> <p>016 <input type="radio"/> Biogas</p> <p>017 <input type="radio"/> Ethanol</p> <p>And 3 other [6]</p>
<p>H03_03Other. Other(Specify)</p> <p>E H03_03==555</p>	<p>TEXT H03_03Other</p> <p>.....</p>
<p>H03_04. Do you heat your house?</p>	<p>SINGLE-SELECT H03_04</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>H03_05 What is the main source you use to heat your house?</p> <p>E H03_04==1</p>	<p>SINGLE-SELECT H03_05</p> <p>001 <input type="radio"/> Electric heater</p> <p>002 <input type="radio"/> Same solid fuel stove used for cooking</p> <p>003 <input type="radio"/> Separate solid fuel stove</p> <p>555 <input type="radio"/> Other specify</p>
<p>H03_05Other. Other(Specify)</p> <p>E H03_05==555</p>	<p>TEXT H03_05Other</p> <p>.....</p>
<p>H03_06. What is the MAIN fuel you use in this stove?</p> <p>E H03_04==1 && H03_05.InList(2,3,555)</p>	<p>SINGLE-SELECT H03_06</p> <p>001 <input type="radio"/> LPG/cooking gas</p> <p>002 <input type="radio"/> Wood purchased</p> <p>003 <input type="radio"/> Wood collected</p> <p>004 <input type="radio"/> Charcoal</p> <p>006 <input type="radio"/> Kerosene</p> <p>007 <input type="radio"/> Piped Natural Gas</p> <p>008 <input type="radio"/> Coal/lignite</p> <p>009 <input type="radio"/> Animal Waste/Dung</p> <p>010 <input type="radio"/> Crop Residue/Plant Biomass</p> <p>011 <input type="radio"/> Saw Dust</p> <p>012 <input type="radio"/> Coal Briquette</p>

- 013 Biomass Briquette
- 014 Electric
- 015 Processed biomass (pellets)/ woodchips
- 016 Biogas
- 017 Ethanol

And [3 other](#) [7]

H03_06Other. Other(Specify)	TEXT H03_06Other
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E H03_06==555

H. COOKING AND HEATING SOLUTIONS

H.4 WILLINGNESS TO PAY FOR AN IMPROVED COOKSTOVE

H04_01. CAPI/ Enumerator: Recall responses to Section H (HOUSEHOLD FUEL CONSUMPTION) and record the most frequently used fuel. If not sure, ask respondent. Read options aloud	SINGLE-SELECT H04_01 01 <input type="radio"/> HH uses more fuelwood or crop residues than charcoal 02 <input type="radio"/> HH uses more charcoal than fuelwood or crop residues 03 <input type="radio"/> HH does not use any solid biomass (no charcoal, fuelwood or crop residues)
H04_02. Enumerator: Record Respondent ID for this section Individual ID from Household Roster	SINGLE-SELECT: LINKED H04_02
H04_03. If there is a stove that use less fuel and emit less smoke than the stove that you are using now, are you interested in replacing it?	SINGLE-SELECT H04_03 01 <input type="radio"/> Yes 02 <input type="radio"/> No
H04_04. How much did you pay for the cook stove? MMK If don't pay write "0".	NUMERIC: INTEGER H04_04
H04_05. If you make your own, what is the cost for the material and labor cost (include household member in the cost more) MMK If don't pay write "0".	NUMERIC: INTEGER H04_05

E H04_01.InList (1,2)

E H04_01.InList (1,2)

E H04_01.InList (1,2)

H. COOKING AND HEATING SOLUTIONS / H.4 WILLINGNESS TO PAY FOR AN IMPROVED COOKSTOVE

H.4A WILLINNESS TO PAY FOR COOK STOVE

E H04_01.InList (1,2)

H. COOKING AND HEATING SOLUTIONS / H.4 WILLINGNESS TO PAY FOR AN IMPROVED COOKSTOVE / H.4A WILLINNESS TO PAY FOR COOK STOVE

H.4A 100% PAYMENT

E Quest. IRnd () >=0.666666667

H04a_01. Would you be willing to pay 36,000MMK for this stove? Cashdown	SINGLE-SELECT H04a_01 01 <input type="radio"/> Yes 02 <input type="radio"/> No
H04a_03. Would you be willing to pay \${CF} for this stove? 6 Months Installment = 6,000MMK	SINGLE-SELECT H04a_03 01 <input type="radio"/> Yes

per month E H04a_01==2	02 <input type="radio"/> No
H04a_04. If no, why not participate? E H04a_03==2	SINGLE-SELECT H04a_04 001 <input type="radio"/> Cannot afford the payment 002 <input type="radio"/> Do not need an improved cookstove 003 <input type="radio"/> Do not believe that new stove will use less fuel and smoke 004 <input type="radio"/> I don't have to buy fuel 005 <input type="radio"/> I can make my own stove 006 <input type="radio"/> I don't need to buy new stove 007 <input type="radio"/> Fuel for this stove is unreliable 555 <input type="radio"/> Other, specify
H04a_04Other. Other(Specify) E H04a_04==555	TEXT H04a_04Other
H04a_05. Would you be willing to pay \${CF} for this stove? 12 Months Installment = 3,000MMK per month E H04a_03==2	SINGLE-SELECT H04a_05 01 <input type="radio"/> Yes 02 <input type="radio"/> No
H04a_06. If no, why not participate? E H04a_05==2	SINGLE-SELECT H04a_06 001 <input type="radio"/> Cannot afford the payment 002 <input type="radio"/> Do not need an improved cookstove 003 <input type="radio"/> Do not believe that new stove will use less fuel and smoke 004 <input type="radio"/> I don't have to buy fuel 005 <input type="radio"/> I can make my own stove 006 <input type="radio"/> I don't need to buy new stove 007 <input type="radio"/> Fuel for this stove is unreliable 555 <input type="radio"/> Other, specify
H04a_06Other. Other(Specify) E H04a_06==555	TEXT H04a_06Other
H04a_07. Would you be willing to pay \${CF} for this stove? 24 Months Installment = 1,500MMK per month E H04a_05==2	SINGLE-SELECT H04a_07 01 <input type="radio"/> Yes 02 <input type="radio"/> No
H04a_08. If no, why not participate? E H04a_07==2	SINGLE-SELECT H04a_08 001 <input type="radio"/> Cannot afford the payment 002 <input type="radio"/> Do not need an improved cookstove 003 <input type="radio"/> Do not believe that new stove will use less fuel and smoke 004 <input type="radio"/> I don't have to buy fuel 005 <input type="radio"/> I can make my own stove 006 <input type="radio"/> I don't need to buy new stove 007 <input type="radio"/> Fuel for this stove is unreliable 555 <input type="radio"/> Other, specify

H. COOKING AND HEATING SOLUTIONS / H.4 WILLINGNESS TO PAY FOR AN IMPROVED COOKSTOVE / H.4A WILLINESS TO PAY FOR COOK STOVE
H.4B 66% PAYMENT

E Quest.IRnd() >= 0.333333333 && Quest.IRnd() < 0.666666667

SINGLE-SELECT H04b_01

<p>H04b_01. Would you be willing to pay 24,000MMK for this stove? Cashdown</p>	<p>01 <input type="radio"/> Yes 02 <input type="radio"/> No</p>
<p>H04b_03. Would you be willing to pay \${CF} for this stove? 6 Months Installment = 4,000MMK per month</p> <p>E H04b_01==2</p>	<p>SINGLE-SELECT H04b_03</p> <p>01 <input type="radio"/> Yes 02 <input type="radio"/> No</p>
<p>H04b_04. If no, why not participate?</p> <p>E H04b_03==2</p>	<p>SINGLE-SELECT H04b_04</p> <p>001 <input type="radio"/> Cannot afford the payment 002 <input type="radio"/> Do not need an improved cookstove 003 <input type="radio"/> Do not believe that new stove will use less fuel and smoke 004 <input type="radio"/> I don't have to buy fuel 005 <input type="radio"/> I can make my own stove 006 <input type="radio"/> I don't need to buy new stove 007 <input type="radio"/> Fuel for this stove is unreliable 555 <input type="radio"/> Other, specify</p>
<p>H04b_05. Would you be willing to pay \${CF} for this stove? 12 Months Installment = 2,000MMK per month</p> <p>E H04b_03==2</p>	<p>SINGLE-SELECT H04b_05</p> <p>01 <input type="radio"/> Yes 02 <input type="radio"/> No</p>
<p>H04b_06. If no, why not participate?</p> <p>E H04b_05==2</p>	<p>SINGLE-SELECT H04b_06</p> <p>001 <input type="radio"/> Cannot afford the payment 002 <input type="radio"/> Do not need an improved cookstove 003 <input type="radio"/> Do not believe that new stove will use less fuel and smoke 004 <input type="radio"/> I don't have to buy fuel 005 <input type="radio"/> I can make my own stove 006 <input type="radio"/> I don't need to buy new stove 007 <input type="radio"/> Fuel for this stove is unreliable 555 <input type="radio"/> Other, specify</p>
<p>H04b_07. Would you be willing to pay \${CF} for this stove? 24 Months Installment = 1,000MMK per month</p> <p>E H04b_05==2</p>	<p>SINGLE-SELECT H04b_07</p> <p>01 <input type="radio"/> Yes 02 <input type="radio"/> No</p>
<p>H04b_08. If no, why not participate?</p> <p>E H04b_07==2</p>	<p>SINGLE-SELECT H04b_08</p> <p>001 <input type="radio"/> Cannot afford the payment 002 <input type="radio"/> Do not need an improved cookstove 003 <input type="radio"/> Do not believe that new stove will use less fuel and smoke 004 <input type="radio"/> I don't have to buy fuel 005 <input type="radio"/> I can make my own stove 006 <input type="radio"/> I don't need to buy new stove 007 <input type="radio"/> Fuel for this stove is unreliable 555 <input type="radio"/> Other, specify</p>
<p>H04b_08Other. Other(Specify)</p> <p>E H04b_08==555</p>	<p>TEXT H04b_08Other</p> <p>.....</p>

H. COOKING AND HEATING SOLUTIONS / H.4 WILLINGNESS TO PAY FOR AN IMPROVED COOKSTOVE / H.4A WILLINGNESS TO PAY FOR COOK STOVE
H.4C 33% PAYMENT

E Quest. IRnd () <0.333333333

<p>H04c_01. Would you be willing to pay 12,000MMK for this stove? Cashdown</p>	<p>SINGLE-SELECT H04c_01 01 <input type="radio"/> Yes 02 <input type="radio"/> No</p>
<p>H04c_03. Would you be willing to pay \${CF} for this stove? 6 Months Installment = 2,000MMK per month</p> <p>E H04c_01==2</p>	<p>SINGLE-SELECT H04c_03 01 <input type="radio"/> Yes 02 <input type="radio"/> No</p>
<p>H04c_04. If no, why not participate?</p> <p>E H04c_03==2</p>	<p>SINGLE-SELECT H04c_04 001 <input type="radio"/> Cannot afford the payment 002 <input type="radio"/> Do not need an improved cookstove 003 <input type="radio"/> Do not believe that new stove will use less fuel and smoke 004 <input type="radio"/> I don't have to buy fuel 005 <input type="radio"/> I can make my own stove 006 <input type="radio"/> I don't need to buy new stove 007 <input type="radio"/> Fuel for this stove is unreliable 555 <input type="radio"/> Other, specify</p>
<p>H04c_04Other. Other(Specify)</p> <p>E H04c_04==555</p>	<p>TEXT H04c_04Other </p>
<p>H04c_05. Would you be willing to pay \${CF} for this stove? 12 Months Installment = 1,000MMK per month</p> <p>E H04c_03==2</p>	<p>SINGLE-SELECT H04c_05 01 <input type="radio"/> Yes 02 <input type="radio"/> No</p>
<p>H04c_06. If no, why not participate?</p> <p>E H04c_05==2</p>	<p>SINGLE-SELECT H04c_06 001 <input type="radio"/> Cannot afford the payment 002 <input type="radio"/> Do not need an improved cookstove 003 <input type="radio"/> Do not believe that new stove will use less fuel and smoke 004 <input type="radio"/> I don't have to buy fuel 005 <input type="radio"/> I can make my own stove 006 <input type="radio"/> I don't need to buy new stove 007 <input type="radio"/> Fuel for this stove is unreliable 555 <input type="radio"/> Other, specify</p>
<p>H04c_06Other. Other(Specify)</p> <p>E H04c_06==555</p>	<p>TEXT H04c_06Other </p>
<p>H04c_07. Would you be willing to pay \${CF} for this stove? 24 Months Installment = 500MMK per month</p> <p>E H04c_05==2</p>	<p>SINGLE-SELECT H04c_07 01 <input type="radio"/> Yes 02 <input type="radio"/> No</p>
<p>H04c_08. If no, why not participate?</p> <p>E H04c_07==2</p>	<p>SINGLE-SELECT H04c_08 001 <input type="radio"/> Cannot afford the payment 002 <input type="radio"/> Do not need an improved cookstove 003 <input type="radio"/> Do not believe that new stove will use less fuel and smoke 004 <input type="radio"/> I don't have to buy fuel 005 <input type="radio"/> I can make my own stove 006 <input type="radio"/> I don't need to buy new stove 007 <input type="radio"/> Fuel for this stove is unreliable 555 <input type="radio"/> Other, specify</p>

I. CONSUMPTION / EXPENDITURE

STATIC TEXT

Interviewer Instructions: The Respondent should be the head of household.

Iresp1 Enumerator: Record Respondent ID for this section

SINGLE-SELECT: LINKED

Iresp1

I. CONSUMPTION / EXPENDITURE

I.1 FOOD, BEVERAGES AND TOBACCO EXPENDITURE IN THE PAST 7 DAYS

STATIC TEXT

Value of Consumption (local currency) during last 7 days

I01_01. Cereals & cereal products (e.g.: rice, maize, wheat, flour, millet) and starchy staples (e.g.: cassava, plantain, yam, cocoyam) Value of Consumption (local currency) during last 7 day -888=Don't know

NUMERIC: INTEGER

I01_01

I01_02. Pulses & nuts (e.g.: beans, groundnuts, palm nuts, soy beans) Value of Consumption (local currency) during last 7 day -888=Don't know

NUMERIC: INTEGER

I01_02

I01_03. Milk & milk products (e.g.: powder, tinned, fresh, cowbell) Value of Consumption (local currency) during last 7 day -888=Don't know

NUMERIC: INTEGER

I01_03

I01_04. Edible oil (e.g.: palm oil, groundnut oil, coconut oil) Value of Consumption (local currency) during last 7 day -888=Don't know

NUMERIC: INTEGER

I01_04

I01_05. Vegetables (e.g.: okra, tomato, onion, carrot, cabbage, garden egg) and Fruits (e.g.: bananas, coconut, pineapple, mango, orange, pawpaw) Value of Consumption (local currency) during last 7 day -888=Don't know

NUMERIC: INTEGER

I01_05

I01_06. Egg, fish (smoked/fresh), meat, & poultry Value of Consumption (local currency) during last 7 day -888=Don't know

NUMERIC: INTEGER

I01_06

I01_07. Sugar Value of Consumption (local currency) during last 7 day -888=Don't know

NUMERIC: INTEGER

I01_07

I01_08. Other food items (e.g, pepper, salt, spices, butter, jam, bread, groundnut paste, processed foods, etc.) Include all processed foods not prepared by household using raw

NUMERIC: INTEGER

I01_08

ingredients Value of Consumption (local currency) during last 7 day -888=Don't know	
I01_09. Meals/food bought outside home Include any meals purchased from outside that are not prepared by the household Value of Consumption (local currency) during last 7 day -888=Don't know	NUMERIC: INTEGER I01_09 -----
I01_10. Beverages (e.g.: malt drinks, minerals, coffee/Lipton/Milo) Value of Consumption (local currency) during last 7 day -888=Don't know	NUMERIC: INTEGER I01_10 -----
I01_11. Alcohol, tobacco and cigarettes Value of Consumption (local currency) during last 7 day -888=Don't know	NUMERIC: INTEGER I01_11 -----

I. CONSUMPTION / EXPENDITURE

I.2 REGULAR NON-FOOD EXPENDITURE IN THE PAST 30 DAYS

STATIC TEXT

Value of Expenditure (local currency) during last 30 days -888=Don't know

I02_01. Medical/pharmacy expenses (e.g.: tablets/syrups, insecticide, condoms, pharmacy/chemist, traditional/herbal medicine) Value of Expenditure (local currency) during last 30 days -888=Don't know	NUMERIC: INTEGER I02_01 -----
I02_02. Soaps, disinfectants and cleaning supplies; cosmetics and toiletries Value of Expenditure (local currency) during last 30 days -888=Don't know	NUMERIC: INTEGER I02_02 -----
I02_03. Water supply for drinking and other uses (tanker services, pipe-borne, metered, bore-hole, well, purchased water) Value of Expenditure (local currency) during last 30 days -888=Don't know	NUMERIC: INTEGER I02_03 -----
I02_04. Mobile phone top-up Value of Expenditure (local currency) during last 30 days -888=Don't know	NUMERIC: INTEGER I02_04 -----
I02_05. Internet, land phone, dish, cable, and other household communication Value of Expenditure (local currency) during last 30 days -888=Don't know	NUMERIC: INTEGER I02_05 -----
I02_06. House Rent Value of Expenditure (local currency) during last 30 days -888=Don't know	NUMERIC: INTEGER I02_06 -----
I02_07. Transportation costs (fuel for own vehicles, cost of public transportation, buses, taxis) Value of Expenditure (local currency) during last 30 days -888=Don't know	NUMERIC: INTEGER I02_07 -----

I02_08. Other recurring monthly expenditure (wage of domestic workers, entertainment, etc.) Value of Expenditure (local currency) during last 30 days -888=Don't know	NUMERIC: INTEGER -----	I02_08
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I. CONSUMPTION / EXPENDITURE

I.3 OTHER NON-FOOD EXPENDITURE IN THE PAST 12 MONTHS

STATIC TEXT

Value of Expenditure (local currency) during the last 12 months -888=Don't know

I03_01. School fees and other educational expenses Include uniform, PTA dues, books, tutor, school supplies, transport, food, etc. Value of Expenditure (local currency) during the last 12 months -888=Don't know	NUMERIC: INTEGER -----	I03_01
I03_02. SClothing, shoes, and accessories Value of Expenditure (local currency) during the last 12 months -888=Don't know	NUMERIC: INTEGER -----	I03_02
I03_03. Celebrations (e.g. funerals and expenses, weddings, festivals, naming ceremony, engagement) Only include costs to host celebration or to give donations/gifts for attending celebrations. Value of Expenditure (local currency) during the last 12 months -888=Don't know	NUMERIC: INTEGER -----	I03_03
I03_04. Gifts and donations (e.g.: donation to church made by the household, tithes) Only include gifts and donations not already included in L.22 Value of Expenditure (local currency) during the last 12 months -888=Don't know	NUMERIC: INTEGER -----	I03_04
I03_05. Hospital/Doctor visits and Diagnostic tests (e.g.: consultations at private hospital, public hospital, traditional healer) Do not include costs paid for by insurance Value of Expenditure (local currency) during the last 12 months -888=Don't know	NUMERIC: INTEGER -----	I03_05
I03_06. Furniture (e.g.: mattresses, room furniture, furnishing items, floor mats, carpets) Value of Expenditure (local currency) during the last 12 months -888=Don't know	NUMERIC: INTEGER -----	I03_06
I03_07. Repair, maintenance, and building (e.g.: cement, roofing, paint, carpentry, labor for repairs, sewerage removal) Value of Expenditure (local currency) during the last 12 months -888=Don't know	NUMERIC: INTEGER -----	I03_07
I03_08. Utensils & kitchen equipment (e.g.: cups, plates, cutleries, cooking pots, buckets) Value of Expenditure (local currency) during the last 12 months -888=Don't know	NUMERIC: INTEGER -----	I03_08

I03_09. Electronics: TV, radio-cassette player, VCR/DVD, Cassettes, CDs, records, satellite TV, MP3 player, video game player, pen drives, other digital accessories, Computer or laptop purchase Value of Expenditure (local currency) during the last 12 months -888=Don't know	NUMERIC: INTEGER ----- I03_09
I03_10. Appliances & tools (e.g.: electric iron, electric fans, refrigerators, lanterns, brooms) Value of Expenditure (local currency) during the last 12 months -888=Don't know	NUMERIC: INTEGER ----- I03_10
I03_11. Vehicles & motorcycle & bicycle (purchase or repair of own car/moto/ car battery) Value of Expenditure (local currency) during the last 12 months -888=Don't know	NUMERIC: INTEGER ----- I03_11
I03_12. Remittance sent to family members and relatives Value of Expenditure (local currency) during the last 12 months -888=Don't know	NUMERIC: INTEGER ----- I03_12
I03_13. Losses due to theft, robbery, accidents, natural disasters, etc. Value of Expenditure (local currency) during the last 12 months -888=Don't know	NUMERIC: INTEGER ----- I03_13
I03_14 Other major expenses not yet covered (specify) Value of Expenditure (local currency) during the last 12 months -888=Don't know	NUMERIC: INTEGER ----- I03_14

J. LAND OWNERSHIP, OTHER ASSETS AND BUSINESS AT HOME

Jresp1 Enumerator: Record Respondent ID for this section	SINGLE-SELECT: LINKED Jresp1
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J. LAND OWNERSHIP, OTHER ASSETS AND BUSINESS AT HOME

J.1 HOUSEHOLD LAND OWNERSHIP AND OTHER ASSETS

STATIC TEXT

Instruction: Enter the total values of following assets owned by the household. If some assets are owned by members, report aggregate values for all members. The Respondent should be the head of household.

J01_01a. Do you own Agricultural land ?	SINGLE-SELECT 01 <input type="radio"/> Yes 02 <input type="radio"/> No J01_01a
J01_01b1. What is the total size of the land? E J01_01a==1	NUMERIC: DECIMAL ----- J01_01b1
J01_01b2. Unit E J01_01a==1	SINGLE-SELECT 03 <input type="radio"/> Acre 04 <input type="radio"/> Square fifth J01_01b2
J01_01c. If you were to sell, what is the total	NUMERIC: INTEGER ----- J01_01c

value? Local currency I ကျွန်ုပ်တို့ သိနည်း ဝယ်ယူမှု ပြင်ဆင် ဖောက်ဖျက်ပါ။ E J01_01a==1	-----
J01_02a. Do you own Homestead land ?	SINGLE-SELECT J01_02a 01 <input type="radio"/> Yes 02 <input type="radio"/> No
J01_02b1. What is the total size of the land? E J01_02a==1	NUMERIC: DECIMAL J01_02b1 -----
J01_02b2. Unit E J01_02a==1	SINGLE-SELECT J01_02b2 03 <input type="radio"/> Acre 04 <input type="radio"/> Square fifth
J01_02c. If you were to sell, what is the total value? Local currency I ကျွန်ုပ်တို့ သိနည်း ဝယ်ယူမှု ပြင်ဆင် ဖောက်ဖျက်ပါ။ E J01_02a==1	NUMERIC: INTEGER J01_02c -----
J01_03a. Do you own Non-agricultural land ?	SINGLE-SELECT J01_03a 01 <input type="radio"/> Yes 02 <input type="radio"/> No
J01_03b1. What is the total size of the land? E J01_03a==1	NUMERIC: DECIMAL J01_03b1 -----
J01_03b2. Unit E J01_03a==1	SINGLE-SELECT J01_03b2 03 <input type="radio"/> Acre 04 <input type="radio"/> Square fifth
J01_03c. If you were to sell, what is the total value? Local currency E J01_03a==1	NUMERIC: INTEGER J01_03c -----
J01_04a. Do you own All buildings, structures, shops, warehouse, etc?	SINGLE-SELECT J01_04a 01 <input type="radio"/> Yes 02 <input type="radio"/> No
J01_04b1. What is the total size of the land? E J01_04a==1	NUMERIC: DECIMAL J01_04b1 -----
J01_04b2. Unit E J01_04a==1	SINGLE-SELECT J01_04b2 03 <input type="radio"/> Acre 04 <input type="radio"/> Square fifth
J01_04c. If you were to sell, what is the total value? Local currency E J01_04a==1	NUMERIC: INTEGER J01_04c -----

J. LAND OWNERSHIP, OTHER ASSETS AND BUSINESS AT HOME
J.2 BUSINESS AT HOME

J02_01. Screening question to insert: do you have business from home/compond (home business)	SINGLE-SELECT J02_01 01 <input type="radio"/> Yes 02 <input type="radio"/> No
--	---

J02_02. Enumerator: Is [business owner] present?

SINGLE-SELECT

J02_02

- 01 Yes
- 02 No

I လုပ်ငန်းနဲ့ ပိုက်ဆံရတာ မရဘဲပဲက ဝန်ထမ်း ပေးနိုင်သူကို မေးရနော်။
 E J02_01==1

J. LAND OWNERSHIP, OTHER ASSETS AND BUSINESS AT HOME / J.2 BUSINESS AT HOME
BUSINESS OWNER

E J02_01==1

J02_03. Enumerator: Ask the related household enterprise questions to the present business owner Individual ID from Household Roster

SINGLE-SELECT: LINKED

J02_03

J02_04. In the last 12 months, in which months did this enterprise operates? Read out loud for each month Answer all that apply

MULTI-SELECT

J02_04

- 01 January (ပုဏ္ဏားလိ - ဆောင်စွဲ)
- 02 February (တပို့တံ - ဆောင်စွဲ)
- 03 March (တပေတံ - နှစ်စွဲ)
- 04 April (တနင်္ဂနွေ - နှစ်စွဲ)
- 05 May (ကဆုန် - နှစ်စွဲ)
- 06 June (နယုန် - မိုး)
- 07 July (ဝါဆို - မိုး)
- 08 August (ဝါခေါင် - မိုး)
- 09 September (တောတောင်လင်း - မိုး)
- 10 October (သီတင်းကျွတ် - မိုး)
- 11 November (တနင်္ဂနွေ - ဆောင်စွဲ)
- 12 December (နတ်တောင် - ဆောင်စွဲ)
- 13 Used all year

J02_05. What was the total revenue of this business or activity in the last month that it was operating? Local Currency

NUMERIC: INTEGER

J02_05

J02_06. Could you please estimate total revenue for this business or activity in a regular month, that is, a month that is neither the busiest nor the slowest of the year? Regular month's total sales

NUMERIC: INTEGER

J02_06

J02_07. In a regular month, how many hours does your enterprise operate each day and night (max 24 hours)? Number of Hours

NUMERIC: INTEGER

J02_07

V1 self<=24

M1 Max 24

J02_08. In a typical month, how many hours does your enterprise operate each night (max 12 hours)? Number of hours

NUMERIC: INTEGER

J02_08

V1 self<=12

M1 Max 12

J02_09. Are your working hours limited by the supply of energy in your business?

SINGLE-SELECT

J02_09

- 01 Yes
- 02 No

J02_10. What are all the different sources of energy that you use in your business? Multiple responses possible

MULTI-SELECT

J02_10

- 001 National Grid connection
- 002 Border, Thai grid
- 003 Township grid

- 004 Local Mini Grid
- 005 Electric Generator (connecting one or more households/businesses)
- 006 Solar Home System
- 007 Solar Lantern/Lighting System
- 008 Rechargeable Battery
- 009 Dry cell batteries
- 010 Pico-Hydro
- 011 Liquid Fuel (diesel, gasoline)
- 012 Coal
- 013 Biomass
- 014 Manure
- 555 Other, specify

<p>J02_10Other. Other(Specify)</p> <p>E J02_10.Contains(555)</p>	<p>TEXT</p> <p style="text-align: right;">J02_10Other</p> <p>.....</p>
<p>J02_11. Interviewer/CAPI check: A61 Is the bussiness connected to the national grid or the local mini grid (response 1,2,3, or 4 from J02_10 ?</p> <p>V1 (self==1 && J02_10.ContainsAny(1,2,3,4)) self!=1</p> <p>M1 check with J02_10</p>	<p>SINGLE-SELECT</p> <p style="text-align: right;">J02_11</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>J02_12. Does the enterprise have a separate electricity bill from household use?</p> <p>E J02_10.ContainsAny(1,2,3,4)</p>	<p>SINGLE-SELECT</p> <p style="text-align: right;">J02_12</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>J02_13. How are you billed for electricity? Read options aloud</p> <p>E J02_10.ContainsAny(1,2,3,4) && J02_12==1</p>	<p>SINGLE-SELECT</p> <p style="text-align: right;">J02_13</p> <p>001 <input type="radio"/> Per kWh based on the meter reading</p> <p>002 <input type="radio"/> Fixed monthly fee</p> <p>003 <input type="radio"/> Pay based on lights and appliances used</p> <p>004 <input type="radio"/> Utility estimates consumption</p> <p>555 <input type="radio"/> Other, specify</p> <p>111 <input type="radio"/> No bill for electricity</p>
<p>J02_13Other. Other(Specify)</p> <p>E J02_13==555</p>	<p>TEXT</p> <p style="text-align: right;">J02_13Other</p> <p>.....</p>
<p>J02_14. What is the most common way to make your electricity bill payment?</p> <p>E J02_10.ContainsAny(1,2,3,4) && J02_12==1</p>	<p>SINGLE-SELECT</p> <p style="text-align: right;">J02_14</p> <p>001 <input type="radio"/> Pay to bill collector</p> <p>002 <input type="radio"/> Vouchers/tokens/pre-paid card from local store</p> <p>003 <input type="radio"/> Credits using mobile money</p> <p>004 <input type="radio"/> Pay at the utility office</p> <p>005 <input type="radio"/> Pay at the bank/post office</p> <p>555 <input type="radio"/> Other, specify</p>
<p>J02_14Other. Other(Specify)</p> <p>E J02_14==555</p>	<p>TEXT</p> <p style="text-align: right;">J02_14Other</p> <p>.....</p>
<p>J02_15. Enumerator: If the respondent pays the energy company or has a record of the electricity payment, ask to see the electricity bill/invoice and use it for A.66 and A.67.</p> <p>E J02_10.ContainsAny(1,2,3,4) && J02_12==1 && J02_14!=111</p>	<p>SINGLE-SELECT</p> <p style="text-align: right;">J02_15</p> <p>01 <input type="radio"/> Respondent has energy bill and shows it</p> <p>02 <input type="radio"/> Respondent has energy bill but refuses to show it or could not locate it</p> <p>03 <input type="radio"/> Respondent does not have an energy bill</p>

<p>J02_16. In the last month, how much did you spend on the electric bill? Calculate amount paid from the last bill. Local Currency Don't Know.....888</p> <p>E J02_10.ContainsAny(1,2,3,4) && J02_12==1 && J02_14!=111</p>	<p>NUMERIC: INTEGER J02_16</p> <p>-----</p>
<p>J02_17. In the last month how much electricity did your enterprise use? Calculate usage from the last bill. Quantity in Kilowatt Hour (kWh) Don't Know.....888 Error! Reference source not found.</p> <p>E J02_10.ContainsAny(1,2,3,4) && J02_12==1 && J02_14!=111</p>	<p>NUMERIC: INTEGER J02_17</p> <p>-----</p>
<p>J02_18. In a typical month, how many hours of electricity are available each day from the grid? (Cannot exceed hours of operation in A.57 Hours of supply Don't Know.....888</p> <p>E J02_10.ContainsAny(1,2,3,4)</p> <p>V1 self<=J02_07 self==888</p> <p>M1 less than or equal operation hour</p>	<p>NUMERIC: INTEGER J02_18</p> <p>-----</p>
<p>J02_19. In nighttime hours your business is usually open during the night, how many hours of electricity are available from the grid? Hours of supply Don't know.....888</p> <p>E J02_10.ContainsAny(1,2,3,4)</p> <p>V1 self<=J02_08 self==888</p> <p>M1 Less than or equal A58</p>	<p>NUMERIC: INTEGER J02_19</p> <p>-----</p>
<p>J02_20a. In a typical summer season how many outages/blackouts does the enterprise experience in a week Number of outages/blackouts in a week for;</p> <p>I (Instruction: Enter 0 for no outage or blackout. Enter actual number of outage or blackouts that respondent answer. If not electricity available during that particular season enter (- 999).</p> <p>E J02_10.ContainsAny(1,2,3,4)</p>	<p>NUMERIC: INTEGER J02_20a</p> <p>-----</p>
<p>J02_20b. In a typical rain season how many outages/blackouts does the enterprise experience in a week Number of outages/blackouts in a week for;</p> <p>I (Instruction: Enter 0 for no outage or blackout. Enter actual number of outage or blackouts that respondent answer. If not electricity available during that particular season enter (- 999).</p> <p>E J02_10.ContainsAny(1,2,3,4)</p>	<p>NUMERIC: INTEGER J02_20b</p> <p>-----</p>
<p>J02_20c. c. In a typical winter season how many outages/blackouts does the enterprise experience in a week Number of outages/blackouts in a week for;</p> <p>I (Instruction: Enter 0 for no outage or blackout. Enter actual number of outage or blackouts that respondent answer. If not electricity available during that particular season enter (- 999).</p> <p>E J02_10.ContainsAny(1,2,3,4)</p>	<p>NUMERIC: INTEGER J02_20c</p> <p>-----</p>
<p>J02_21. In a typical week, what was the total duration of all the outages/blackouts? Minutes</p> <p>E J02_10.ContainsAny(1,2,3,4)</p>	<p>NUMERIC: INTEGER J02_21</p> <p>-----</p>

J02_22. During a typical month, what are the three main ways your business was affected by an electricity power outage? Do not prompt. Multiple responses possible.

E J02_10.ContainsAny(1,2,3,4)

MULTI-SELECT

J02_22

- 001 Continue all operations on backup supply
- 002 Continue reduced operations on backup supply
- 003 Had to turn customers away
- 004 Had to send workers home for the day without pay
- 005 Had to send workers home for the day with pay
- 006 Used more expensive alternate energy sources to run operations/ keep perishables cold
- 007 Wasted perishable products/discarded damaged goods
- 008 Machines/appliances were damaged in the process
- 009 Meetings/transactions were delayed
- 010 Stop operations and waited for power to return
- 011 Not affected by last outage
- 555 Other, specify

J02_22Other. Other(Specify)

TEXT

J02_22Other

E J02_22.Contains(555)

J02_23. Was there a loss of revenue in a typical month due to power outages?

SINGLE-SELECT

J02_23

- 01 Yes
- 02 No

E J02_10.ContainsAny(1,2,3,4)

J02_24. How much was the loss of revenue in a typical month due to power outages? Local currency Don't know.....888

NUMERIC: INTEGER

J02_24

E J02_10.ContainsAny(1,2,3,4) && J02_23==1

J02_25. How much was the extra costs of operating during the outage (e.g. wasted products, paid workers, running a backup generator etc.)? Local currency Don't know.....888 No extra cost.....0

NUMERIC: INTEGER

J02_25

E J02_10.ContainsAny(1,2,3,4)

J02_26. What are the back-up sources for lighting for the enterprise? (Multiple responses possible)

MULTI-SELECT

J02_26

- 001 Generator
- 002 Battery and Storage Devices (e.g.: car battery)
- 003 Solar Home System
- 004 Solar Lantern/Lighting system
- 005 Kerosene lamp
- 006 Candle
- 007 Torch/flashlight
- 008 No backup sources
- 555 Other, specify
- 111 Same as the household (including no back-up)

E J02_10.ContainsAny(1,2,3,4)

J02_26Other. Other(Specify)

TEXT

J02_26Other

E J02_26.Contains(555)

<p>J02_27. Interviewer/CAPI check: Is a solar device used in the enterprise as the main source of electricity (response 6 or 7 from A.60 is main source)?</p> <p>V1 (self==1 && J02_10.ContainsAny(6,7)) self!=1 M1 CheckwithJ02_10</p>	<p>SINGLE-SELECT</p> <p>01 <input type="radio"/> Yes 02 <input type="radio"/> No</p> <p>J02_27</p>
<p>J02_28. How many Solar lanterns does your enterprise use? Indicate '0' if enterprise uses none 0 If unknown indicate '888'</p> <p>E J02_10.ContainsAny(6,7) J02_26.ContainsAny(3,4)</p>	<p>NUMERIC: INTEGER</p> <p>J02_28</p> <p>-----</p>
<p>J02_29a. How many Solar lighting systems does your enterprise use? Indicate '0' if enterprise uses none If unknown indicate '888'</p> <p>E J02_10.ContainsAny(6,7) J02_26.ContainsAny(3,4)</p>	<p>NUMERIC: INTEGER</p> <p>J02_29a</p> <p>-----</p>
<p>J02_29b. What is their total watt size? Indicate '0' if enterprise uses none If unknown indicate '888'</p> <p>E J02_10.ContainsAny(6,7) J02_26.ContainsAny(3,4)</p>	<p>NUMERIC: INTEGER</p> <p>J02_29b</p> <p>-----</p>
<p>J02_30a. How many Solar home systems does your enterprise use? Indicate '0' if enterprise uses none If unknown indicate '888'</p> <p>E J02_10.ContainsAny(6,7) J02_26.ContainsAny(3,4)</p>	<p>NUMERIC: INTEGER</p> <p>J02_30a</p> <p>-----</p>
<p>J02_30b. What is their combined total system Wp size? Indicate '0' if enterprise uses none If unknown indicate '888'</p> <p>E J02_10.ContainsAny(6,7) J02_26.ContainsAny(3,4)</p>	<p>NUMERIC: INTEGER</p> <p>J02_30b</p> <p>-----</p>
<p>J02_31. What are the solar devices used for? Multiple responses possible</p> <p>E J02_10.ContainsAny(6,7) J02_26.ContainsAny(3,4)</p>	<p>MULTI-SELECT</p> <p>J02_31</p> <p>001 <input type="checkbox"/> Lighting 002 <input type="checkbox"/> Cell phone charging - for the enterprise 003 <input type="checkbox"/> Cell phone charging - as a charging station 004 <input type="checkbox"/> Operating laptop/computer/tablet 005 <input type="checkbox"/> Operate photocopy machine/scanner 006 <input type="checkbox"/> Providing entertainment (e.g. playing movies) 007 <input type="checkbox"/> Refrigerator 008 <input type="checkbox"/> Powering other appliances - please list specifically (e.g. solar pump, milling machine, electric hair dryer, sewing machine etc) 555 <input type="checkbox"/> Other</p>
<p>J02_31Other. Other(Specify)</p> <p>E J02_31.Contains(555)</p>	<p>TEXT</p> <p>J02_31Other</p> <p>-----</p>
<p>J02_32. How long has your business been using solar energy? In months (Enumerator, if respondent answers in years, convert to months) Don't know.....888</p> <p>E J02_10.ContainsAny(6,7) J02_26.ContainsAny(3,4)</p>	<p>NUMERIC: INTEGER</p> <p>J02_32</p> <p>-----</p>

J. LAND OWNERSHIP, OTHER ASSETS AND BUSINESS AT HOME
J.3 HOUSEHOLD ECONOMIC SHOCKS

STATIC TEXT

Only record information for events that negatively affected the economic situation of the household.

<p>J03_01a. In the last 12 months, have you been affected by Failure/loss of business including agricultural failures (crop disease, livestock death, etc)? Natural disaster</p>	<p>SINGLE-SELECT J03_01a 01 <input type="radio"/> Yes 02 <input type="radio"/> No</p>
<p>J03_02a. Who was affected by the event? Read options aloud E J03_01a==1</p>	<p>SINGLE-SELECT J03_02a 01 <input type="radio"/> Just this household 02 <input type="radio"/> Family members outside HH 03 <input type="radio"/> Several HHs in this village 04 <input type="radio"/> Most or all HHs in this village 05 <input type="radio"/> Several villages in this area</p>
<p>J03_01b. In the last 12 months, have you been affected by Loss of employment, due to illness illness/injury of economically active household member?</p>	<p>SINGLE-SELECT J03_01b 01 <input type="radio"/> Yes 02 <input type="radio"/> No</p>
<p>J03_02b. Who was affected by the event? Read options aloud E J03_01b==1</p>	<p>SINGLE-SELECT J03_02b 01 <input type="radio"/> Just this household 02 <input type="radio"/> Family members outside HH 03 <input type="radio"/> Several HHs in this village 04 <input type="radio"/> Most or all HHs in this village 05 <input type="radio"/> Several villages in this area</p>

K. ATTITUDE

STATIC TEXT

The respondent should be the most knowledgeable household member on household electricity, as identified in

<p>KRESP1. Enumerator: Record Respondent ID for this section</p>	<p>SINGLE-SELECT: LINKED KRESP1</p>
--	--

K. ATTITUDE

K.1 GENERAL OPINION ON GRID CONNECTION

<p>K01_01. Interviewer/CAPI check: Does the household have a connection to the national grid?</p>	<p>SINGLE-SELECT K01_01 01 <input type="radio"/> Yes 02 <input type="radio"/> No</p>
<p>K01_02. How has the price of electricity changed over time? Read options aloud (Do not read option Don't know aloud, type 888 if relevant.) E K01_01==1</p>	<p>SINGLE-SELECT K01_02 001 <input type="radio"/> It has gotten much higher 002 <input type="radio"/> Stayed about the same 003 <input type="radio"/> It has gotten cheaper 888 <input type="radio"/> Don't know if there are any price change</p>
<p>K01_03. How has the frequency of black out or brown out changed over time? Read options aloud (Do not read option Don't know aloud, type 888 if relevant.)</p>	<p>SINGLE-SELECT K01_03 001 <input type="radio"/> It has gotten worse 002 <input type="radio"/> Stayed the same 003 <input type="radio"/> Better</p>

E K01_01==1	888 <input type="radio"/> Don't know
K01_04. How has the duration of electricity supply at night changed over? Read options aloud (Do not read option Don't know aloud, type 888 if relevant.)	SINGLE-SELECT K01_04 001 <input type="radio"/> It has gotten worse 002 <input type="radio"/> Stayed the same 003 <input type="radio"/> Better 888 <input type="radio"/> Don't know
E K01_01==1	
K01_05. Since you first received your electricity connection, how has the duration of electricity supply during the day changed? Read options aloud (Do not read option Don't know aloud, type 888 if relevant.)	SINGLE-SELECT K01_05 001 <input type="radio"/> It has gotten worse 002 <input type="radio"/> Stayed the same 003 <input type="radio"/> Better 888 <input type="radio"/> Don't know
E K01_01==1	
K01_06. What appliances that you don't have and want to have and use them? Up to 3 answers possible	MULTI-SELECT: ORDERED K01_06 001 <input type="checkbox"/> Fan 002 <input type="checkbox"/> Radio 003 <input type="checkbox"/> Television 004 <input type="checkbox"/> Refrigerator 005 <input type="checkbox"/> Electronic Tablet 006 <input type="checkbox"/> Computer 007 <input type="checkbox"/> Hair clippers 008 <input type="checkbox"/> Power Tools 009 <input type="checkbox"/> Phone with internet (smartphone) 555 <input type="checkbox"/> Other, specify 777 <input type="checkbox"/> None
K01_06Other. Other(Specify)	TEXT K01_06Other
E K01_06.Contains (555)	
K01_07. Why do you not yet own one of these appliances? Multiple responses possible	MULTI-SELECT K01_07 001 <input type="checkbox"/> Too expensive 002 <input type="checkbox"/> No products available 003 <input type="checkbox"/> Products require too much energy, cannot power them with my system 555 <input type="checkbox"/> Other, specify
K01_07Other. Other(Specify)	TEXT K01_07Other
E K01_07.Contains (555)	
K01_08. How satisfied are you with the service from [MAIN SOURCE OF ELECTRICITY 04]? Read aloud these options.	SINGLE-SELECT K01_08 01 <input type="radio"/> Very satisfied 02 <input type="radio"/> Somewhat satisfied 03 <input type="radio"/> Neutral 04 <input type="radio"/> Unsatisfied 05 <input type="radio"/> Very unsatisfied

K. ATTITUDE
K.2 ELECTRICITY

STATIC TEXT

Statement Read the following statement and ask respondent whether he or she agrees (Yes), disagrees (No), or has no opinion.

K02_01. With electrical light the children can study more at night.	SINGLE-SELECT K02_01 01 <input type="radio"/> Agrees 02 <input type="radio"/> Disagrees
---	--

	03 <input type="radio"/> No Opinion
K02_02. Our household is happy with the lighting system that we have in our home.	SINGLE-SELECT K02_02 01 <input type="radio"/> Agrees 02 <input type="radio"/> Disagrees 03 <input type="radio"/> No Opinion
K02_03. To use kerosene or diesel for lamp lighting is harmful for the health.	SINGLE-SELECT K02_03 01 <input type="radio"/> Agrees 02 <input type="radio"/> Disagrees 03 <input type="radio"/> No Opinion
K02_05. A solar based system is a good source of electricity.	SINGLE-SELECT K02_05 01 <input type="radio"/> Agrees 02 <input type="radio"/> Disagrees 03 <input type="radio"/> No Opinion
K02_06. Electricity helps with domestic tasks and care of the children.	SINGLE-SELECT K02_06 01 <input type="radio"/> Agrees 02 <input type="radio"/> Disagrees 03 <input type="radio"/> No Opinion
K02_08. The monthly electric bill is or would be a financial burden for my family.	SINGLE-SELECT K02_08 01 <input type="radio"/> Agrees 02 <input type="radio"/> Disagrees 03 <input type="radio"/> No Opinion
K02_09. The electricity makes it easy to have information and the news.	SINGLE-SELECT K02_09 01 <input type="radio"/> Agrees 02 <input type="radio"/> Disagrees 03 <input type="radio"/> No Opinion
K02_11. News and information from radio and television provide good information relevant for conducting business and agricultural activities.	SINGLE-SELECT K02_11 01 <input type="radio"/> Agrees 02 <input type="radio"/> Disagrees 03 <input type="radio"/> No Opinion

K. ATTITUDE

K.3 COOKING

STATIC TEXT

Statement Read the following statement and ask respondent whether he or she agrees (Yes), disagrees (No), or has no opinion.

K03_01. Smoke from stove is good at chasing insects away.	SINGLE-SELECT K03_01 01 <input type="radio"/> Agrees 02 <input type="radio"/> Disagrees 03 <input type="radio"/> No Opinion
K03_02. Smoke from cooking fuels is a big health problem in my family.	SINGLE-SELECT K03_02 01 <input type="radio"/> Agrees 02 <input type="radio"/> Disagrees 03 <input type="radio"/> No Opinion
K03_04. Firewood is expensive for cooking.	SINGLE-SELECT K03_04 01 <input type="radio"/> Agrees 02 <input type="radio"/> Disagrees 03 <input type="radio"/> No Opinion
K03_08. Cooking with firewood is harmful to a person's health.	SINGLE-SELECT K03_08 01 <input type="radio"/> Agrees

	02 <input type="radio"/> Disagrees 03 <input type="radio"/> No Opinion
K03_09. Electricity is expensive for cooking.	SINGLE-SELECT K03_09 01 <input type="radio"/> Agrees 02 <input type="radio"/> Disagrees 03 <input type="radio"/> No Opinion
K03_10. Firewood is hard to obtain.	SINGLE-SELECT K03_10 01 <input type="radio"/> Agrees 02 <input type="radio"/> Disagrees 03 <input type="radio"/> No Opinion
K03_11. LPG is expensive for cooking household meals.	SINGLE-SELECT K03_11 01 <input type="radio"/> Agrees 02 <input type="radio"/> Disagrees 03 <input type="radio"/> No Opinion
K03_12. Certain food tastes better when cooked with biomass compared to gas or electricity.	SINGLE-SELECT K03_12 01 <input type="radio"/> Agrees 02 <input type="radio"/> Disagrees 03 <input type="radio"/> No Opinion
K03_13. Charcoal is hard to obtain in the market.	SINGLE-SELECT K03_13 01 <input type="radio"/> Agrees 02 <input type="radio"/> Disagrees 03 <input type="radio"/> No Opinion
K03_14. I prefer to use "Three/five Stone" as the firewood stove at home.	SINGLE-SELECT K03_14 01 <input type="radio"/> Agrees 02 <input type="radio"/> Disagrees 03 <input type="radio"/> No Opinion
K03_15. Collecting and preparing firewood is a burden for my family.	SINGLE-SELECT K03_15 01 <input type="radio"/> Agrees 02 <input type="radio"/> Disagrees 03 <input type="radio"/> No Opinion

K. ATTITUDE

K.4 STREET LIGHTING

STATIC TEXT

Statement Read the following statement and ask respondent whether he or she agrees (Yes), disagrees (No), or has no opinion.

K04_01. Street lighting makes it safer for women and girls to be outside at night.	SINGLE-SELECT K04_01 01 <input type="radio"/> Agrees 02 <input type="radio"/> Disagrees 03 <input type="radio"/> No Opinion
K04_02. Street lighting makes it safer for children to be outside at night.	SINGLE-SELECT K04_02 01 <input type="radio"/> Agrees 02 <input type="radio"/> Disagrees 03 <input type="radio"/> No Opinion
K04_03. Street lighting leads to fewer crimes.	SINGLE-SELECT K04_03 01 <input type="radio"/> Agrees 02 <input type="radio"/> Disagrees 03 <input type="radio"/> No Opinion
K04_06. Street lighting lets night markets and	SINGLE-SELECT K04_06

other businesses stay open.

- 01 Agrees
02 Disagrees
03 No Opinion

K. ATTITUDE

K.5 PAYMENT/FINANCE

STATIC TEXT

Statement Read the following statement and ask respondent whether he or she agrees (Yes), disagrees (No), or has no opinion.

K05_03. I would rather pay a very small amount to rent a solar system than pay a very large amount once to own it.

SINGLE-SELECT

K05_03

- 01 Agrees
02 Disagrees
03 No Opinion

K05_04. I would rather pay per unit of electricity (kWh) instead of renting or buying a solar system.

SINGLE-SELECT

K05_04

- 01 Agrees
02 Disagrees
03 No Opinion

K05_07. I would borrow money to purchase a TV.

SINGLE-SELECT

K05_07

- 01 Agrees
02 Disagrees
03 No Opinion

K05_08. I would borrow money to purchase a refrigerator.

SINGLE-SELECT

K05_08

- 01 Agrees
02 Disagrees
03 No Opinion

K. ATTITUDE

K.6 DECISION MAKING

STATIC TEXT

Statement Read the following statement and ask respondent whether he or she agrees (Yes), disagrees (No), or has no opinion.

K06_02. Men usually make decisions on the distribution of family budget.

SINGLE-SELECT

K06_02

- 01 Agrees
02 Disagrees
03 No Opinion

K06_03. Men usually make decisions on purchasing of energy and energy-consuming devices.

SINGLE-SELECT

K06_03

- 01 Agrees
02 Disagrees
03 No Opinion

L. WOMEN'S EMPOWERMENT

STATIC TEXT

Respondents should be a female headed household or female spouse of the household head/member in the household.

LRESP1. Enumerator: Record Respondent ID for this section

SINGLE-SELECT: LINKED

LRESP1

L. WOMEN'S EMPOWERMENT
L.1 MOBILITY

STATIC TEXT

STATEMENT Can you do the following activities alone or you have to go with your husband: Mark who decides about each of the activities below.

<p>L01_01. Visiting parents/relatives/friends within or outside the village.</p>	<p>SINGLE-SELECT L01_01 001 <input type="radio"/> Can do herself 002 <input type="radio"/> Can do with husband 003 <input type="radio"/> Can do with friend/relative/family member 555 <input type="radio"/> Other Specify</p>
<p>L01_01Other. Other Specify E L01_01==555</p>	<p>TEXT L01_01Other </p>
<p>L01_02. Going to markets/banks/commercial centers/places of work.</p>	<p>SINGLE-SELECT L01_02 001 <input type="radio"/> Can do herself 002 <input type="radio"/> Can do with husband 003 <input type="radio"/> Can do with friend/relative/family member 555 <input type="radio"/> Other Specify</p>
<p>L01_02Other. Other Specify E L01_02==555</p>	<p>TEXT L01_02Other </p>
<p>L01_03. Going outside the ward/village</p>	<p>SINGLE-SELECT L01_03 001 <input type="radio"/> Can do herself 002 <input type="radio"/> Can do with husband 003 <input type="radio"/> Can do with friend/relative/family member 555 <input type="radio"/> Other Specify</p>
<p>L01_03Other. Other Specify E L01_03==555</p>	<p>TEXT L01_03Other </p>

L. WOMEN'S EMPOWERMENT
L.2 ACCESS TO INFORMATION, ORGANIZATION MEMBERSHIP, VILLAGE ELECTRIFICATION COMMITTEE, CAPACITY BUILDING AND ACCESS TO FINANCE.

<p>L02_01. What are the main sources of information you use?</p>	<p>MULTI-SELECT L02_01 001 <input type="checkbox"/> Village Head or village administrative team 002 <input type="checkbox"/> Village meeting 003 <input type="checkbox"/> Village loud speaker 004 <input type="checkbox"/> Radio 005 <input type="checkbox"/> TV 006 <input type="checkbox"/> Newspaper 007 <input type="checkbox"/> Women's groups 008 <input type="checkbox"/> Other organizations 009 <input type="checkbox"/> Relatives 010 <input type="checkbox"/> Neighbor 555 <input type="checkbox"/> Other specify</p>
<p>L02_01Other. Other specify E L02_01.Contains (555)</p>	<p>TEXT L02_01Other </p>
<p>L02_02. Do you receive information about</p>	<p>SINGLE-SELECT L02_02</p>

<p>electricity/energy service available in your areas?</p>	<p>01 <input type="radio"/> Yes 02 <input type="radio"/> No</p>
<p>L02_03. If you are a member of a women's group, which type of group are you a member of/do you belong to?</p>	<p>SINGLE-SELECT L02_03</p> <p>001 <input type="radio"/> Not a member 002 <input type="radio"/> Religious related activities 003 <input type="radio"/> Health care related activities 004 <input type="radio"/> Income generating activities 006 <input type="radio"/> Self help organization 007 <input type="radio"/> Savings group 008 <input type="radio"/> Microfinance organization 009 <input type="radio"/> Cooperative 010 <input type="radio"/> Village administrative committee 011 <input type="radio"/> Village electrification committee 555 <input type="radio"/> Other specify</p>
<p>L02_03Other. Other specify</p> <p>E L02_03==555</p>	<p>TEXT L02_03Other</p> <p>.....</p>
<p>L02_04. What do you think are the main constraints women face in participating in organizations or activities in the area?</p>	<p>SINGLE-SELECT L02_04</p> <p>001 <input type="radio"/> Limited time 002 <input type="radio"/> Lack of support from family 003 <input type="radio"/> Limited cofidence 004 <input type="radio"/> Limited education 555 <input type="radio"/> Other specify</p>
<p>L02_04Other. Other specify</p> <p>E L02_04==555</p>	<p>TEXT L02_04Other</p> <p>.....</p>
<p>L02_05. If you are a member of the village electrification committee, how often do you meet?</p>	<p>SINGLE-SELECT L02_05</p> <p>001 <input type="radio"/> Not a member 002 <input type="radio"/> Never 003 <input type="radio"/> Once a month 004 <input type="radio"/> Once every two months 555 <input type="radio"/> Other specificity</p>
<p>L02_05Other. Other specify</p> <p>E L02_05==555</p>	<p>TEXT L02_05Other</p> <p>.....</p>
<p>L02_06. Have you had any training on electricity or energy related equipment?</p>	<p>SINGLE-SELECT L02_06</p> <p>01 <input type="radio"/> Yes 02 <input type="radio"/> No</p>
<p>L02_07. Why haven't you had any training on electricity or energy related equipment?</p> <p>E L02_06==1</p>	<p>SINGLE-SELECT L02_07</p> <p>001 <input type="radio"/> Did not receive the invitation 002 <input type="radio"/> Training only for headed hosuehold 003 <input type="radio"/> Does not have time 004 <input type="radio"/> No support from family to attend 555 <input type="radio"/> Other, specify</p>
<p>L02_07Other. Other specify</p> <p>E L02_07==555</p>	<p>TEXT L02_07Other</p> <p>.....</p>
<p>L02_08. What types of skills training do you think you need?</p>	<p>SINGLE-SELECT L02_08</p> <p>001 <input type="radio"/> To read and write 002 <input type="radio"/> Vocational training</p>

	003 <input type="radio"/> Accounting 004 <input type="radio"/> Income generating activity 005 <input type="radio"/> Agriculture related 555 <input type="radio"/> Other specify	
L02_08Other. Other specify E L02_08==555	TEXT	L02_08Other
L02_09. Do you have bank account? Or joint bank account with husband?	SINGLE-SELECT 01 <input type="radio"/> No account 02 <input type="radio"/> Own 03 <input type="radio"/> Joint	L02_09
L02_10. What sources of credit/loans do you have access to?	SINGLE-SELECT 001 <input type="radio"/> None 002 <input type="radio"/> Commercial/government bank 003 <input type="radio"/> Cooperative credit union 004 <input type="radio"/> Microfinance institution 005 <input type="radio"/> Rural bank 006 <input type="radio"/> State loan 007 <input type="radio"/> NGO 008 <input type="radio"/> Business firm 009 <input type="radio"/> Employer 010 <input type="radio"/> SACCO/Moneylender 011 <input type="radio"/> Shop 012 <input type="radio"/> Relative/friend/neighbor 555 <input type="radio"/> Other, specify	L02_10
L02_10Other. Other specify E L02_10==555	TEXT	L02_10Other
L02_11. Do you have sufficient money at the end of the month to purchase necessary goods/services for your families?	SINGLE-SELECT 01 <input type="radio"/> Yes 02 <input type="radio"/> No	L02_11

GEO B

Interview Language	SINGLE-SELECT 01 <input type="radio"/> ကဗျေငွေ 02 <input type="radio"/> ကယား 03 <input type="radio"/> ကရင် 04 <input type="radio"/> ချေငွေ 05 <input type="radio"/> မဏ္ဍိုင် 06 <input type="radio"/> ဗမာ 07 <input type="radio"/> ရခိုင် 08 <input type="radio"/> ရှမ်း 09 <input type="radio"/> အခြားတိုင်းရင်းသား ဘာသာစကား 10 <input type="radio"/> တရုတ် 11 <input type="radio"/> အာရဗီ 12 <input type="radio"/> ဟိန္ဒူ၊ အခြားအိန္ဒိယဘာသာစကား 13 <input type="radio"/> အခြားနိုင်ငံခြားဘာသာစကား	Language
Please take a photo	PICTURE	Photo
Please take gps location	GPS N	Geo

W

A

APPENDIX A — ENABLING CONDITIONS

[1] C01e_02: C01e_02. What is the total sum of hours used?

Enablement Condition:

```
C01e_01>=1 && (@rowcode==101||
@rowcode==102||
@rowcode==103||
@rowcode==104||
@rowcode==201||
@rowcode==202||
@rowcode==203||
@rowcode==301||
@rowcode==302||
@rowcode==303||
@rowcode==304||
@rowcode==305||
@rowcode==306||
@rowcode==307||
@rowcode==401||
@rowcode==402||
@rowcode==403||
@rowcode==404||
@rowcode==405||
@rowcode==406||
@rowcode==407||
@rowcode==501||
@rowcode==502||
@rowcode==503||
@rowcode==504
)
```

[2] C02e_02: C02e_02. What is the total sum of hours used?

Enablement Condition:

```
C02e_01>=1 && (@rowcode==101||
@rowcode==102||
@rowcode==103||
@rowcode==104||
@rowcode==201||
@rowcode==202||
@rowcode==203||
@rowcode==301||
@rowcode==302||
@rowcode==303||
@rowcode==304||
@rowcode==305||
@rowcode==306||
@rowcode==307||
@rowcode==401||
@rowcode==402||
@rowcode==403||
@rowcode==404||
@rowcode==405||
@rowcode==406||
@rowcode==407||
@rowcode==501||
@rowcode==502||
@rowcode==503||
@rowcode==504
)
```

[3] C03e_02: C03e_02. What is the total sum of hours used?

Enablement Condition:

```
C03e_01>=1 && (@rowcode==101||
@rowcode==102||
@rowcode==103||
@rowcode==104||
@rowcode==201||
@rowcode==202||
@rowcode==203||
@rowcode==301||
@rowcode==302||
@rowcode==303||
@rowcode==304||
@rowcode==305||
@rowcode==306||
@rowcode==307||
@rowcode==401||
@rowcode==402||
@rowcode==403||
@rowcode==404||
@rowcode==405||
@rowcode==406||
@rowcode==407||
@rowcode==501||
@rowcode==502||
@rowcode==503||
@rowcode==504
```

)

- [4] **C04d_01: C04d_01.** In a typical day how many of the %rostertitle% are used. Write 0 if none
Enablement Condition:

```
@rowcode==101 ||  
@rowcode==102 ||  
@rowcode==103 ||  
@rowcode==104 ||  
@rowcode==201 ||  
@rowcode==202 ||  
@rowcode==203 ||  
@rowcode==301 ||  
@rowcode==302 ||  
@rowcode==303 ||  
@rowcode==304 ||  
@rowcode==305 ||  
@rowcode==306 ||  
@rowcode==307 ||  
@rowcode==401 ||  
@rowcode==402 ||  
@rowcode==403 ||  
@rowcode==404 ||  
@rowcode==405 ||  
@rowcode==406 ||  
@rowcode==407 ||  
@rowcode==501 ||  
@rowcode==502 ||  
@rowcode==503 ||  
@rowcode==504 ||  
@rowcode==508 ||  
@rowcode==509 ||  
@rowcode==601 ||  
@rowcode==606 ||  
@rowcode==802 ||  
@rowcode==803 ||  
@rowcode==804 ||  
@rowcode==805
```

- [5] **C04d_02: C04d_02.** What is the total sum of hours used?
Enablement Condition:

```
C04d_01>=1 && (@rowcode==101 ||  
@rowcode==102 ||  
@rowcode==103 ||  
@rowcode==104 ||  
@rowcode==201 ||  
@rowcode==202 ||  
@rowcode==203 ||  
@rowcode==301 ||  
@rowcode==302 ||  
@rowcode==303 ||  
@rowcode==304 ||  
@rowcode==305 ||  
@rowcode==306 ||  
@rowcode==307 ||  
@rowcode==401 ||  
@rowcode==402 ||  
@rowcode==403 ||  
@rowcode==404 ||  
@rowcode==405 ||  
@rowcode==406 ||  
@rowcode==407 ||  
@rowcode==501 ||  
@rowcode==502 ||  
@rowcode==503 ||  
@rowcode==504  
)
```

- [6] **C05d_01: C05d_01.** In a typical day how many of the %rostertitle% are used. Write 0 if none 0□NEXT ROW
Enablement Condition:

```
@rowcode==101 ||  
@rowcode==102 ||  
@rowcode==103 ||  
@rowcode==104 ||  
@rowcode==201 ||  
@rowcode==202 ||  
@rowcode==203 ||  
@rowcode==301 ||  
@rowcode==302 ||  
@rowcode==303 ||  
@rowcode==304 ||  
@rowcode==305 ||  
@rowcode==306 ||  
@rowcode==307 ||  
@rowcode==401 ||  
@rowcode==402 ||  
@rowcode==403 ||  
@rowcode==404 ||  
@rowcode==405 ||  
@rowcode==406 ||
```

```

@rowcode==407||
@rowcode==501||
@rowcode==502||
@rowcode==503||
@rowcode==504||
@rowcode==508||
@rowcode==509||
@rowcode==601||
@rowcode==606||
@rowcode==802||
@rowcode==803||
@rowcode==804||
@rowcode==805

```

[7] [C05d_02: C05d_02. What is the total sum of hours used? Number of hours](#)

Enablement Condition:

```

C05d_01>=1 && (@rowcode==101||
@rowcode==102||
@rowcode==103||
@rowcode==104||
@rowcode==201||
@rowcode==202||
@rowcode==203||
@rowcode==301||
@rowcode==302||
@rowcode==303||
@rowcode==304||
@rowcode==305||
@rowcode==306||
@rowcode==307||
@rowcode==401||
@rowcode==402||
@rowcode==403||
@rowcode==404||
@rowcode==405||
@rowcode==406||
@rowcode==407||
@rowcode==501||
@rowcode==502||
@rowcode==503||
@rowcode==504
)

```

[8] [: Geo B](#)

Enablement Condition:

```

A01_01 !=null &&
A01_02 !=null &&
A01_03 !=null &&
A01_04 !=null &&
A01_05 !=null &&
B01_01 !=null &&
B01_02 !=null &&
B01_06 !=null &&
B01_09 !=null &&
B01_14 !=null &&
B02_01 !=null &&
B02_06 !=null &&
B03a_01 !=null &&
B03a_06 !=null &&
B03a_11 !=null &&
B03b_03 !=null &&
B03b_08 !=null &&
C1 !=null &&
C01f01 !=null &&
C02a01 !=null &&
C03a01 !=null &&
C04a01 !=null &&
C05a01 !=null &&
C06_01 !=null &&
C07_01 !=null &&
C08_01 !=null &&
D01_01 !=null &&
D04_01 !=null &&
E01_01 !=null &&
E02_10 !=null &&
E02_11 !=null &&
G01_01c !=null &&
G02_01d !=null &&
G03_01b !=null &&
G04_01 !=null &&
G05_01a !=null &&
G06_01b !=null &&
G07_01a !=null &&
H03_01 !=null &&
H04_01 !=null &&
I01_05 !=null &&
I02_02 !=null &&
I03_09 !=null &&
J01_02a !=null &&
J03_01b !=null &&
J02_01 !=null &&

```

```
K01_06 !=null &&  
K02_09 !=null &&  
K03_11 !=null &&  
K04_03 !=null &&  
K05_07 !=null &&  
K06_03 !=null &&  
L01_03 !=null &&  
L02_03 !=null &&  
L02_09 !=null &&  
L02_10 !=null
```

APPENDIX B — VALIDATION CONDITIONS AND MESSAGES

- [1] **C01b02b: C01b02b. In the last 12 months, (start from this month) which months have the worst electric service. (Multiple response)**

Validation Condition:

```
( (C01b02a.Contains(1) && !C01b02b.Contains(1)) || (!C01b02a.Contains(1) &&
C01b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14,777))) &&
( (C01b02a.Contains(2) && !C01b02b.Contains(2)) || (!C01b02a.Contains(2) &&
C01b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14,777))) &&
( (C01b02a.Contains(3) && !C01b02b.Contains(3)) || (!C01b02a.Contains(3) &&
C01b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14,777))) &&
( (C01b02a.Contains(4) && !C01b02b.Contains(4)) || (!C01b02a.Contains(4) &&
C01b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14,777))) &&
( (C01b02a.Contains(5) && !C01b02b.Contains(5)) || (!C01b02a.Contains(5) &&
C01b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14,777))) &&
( (C01b02a.Contains(6) && !C01b02b.Contains(6)) || (!C01b02a.Contains(6) &&
C01b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14,777))) &&
( (C01b02a.Contains(7) && !C01b02b.Contains(7)) || (!C01b02a.Contains(7) &&
C01b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14,777))) &&
( (C01b02a.Contains(8) && !C01b02b.Contains(8)) || (!C01b02a.Contains(8) &&
C01b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14,777))) &&
( (C01b02a.Contains(9) && !C01b02b.Contains(9)) || (!C01b02a.Contains(9) &&
C01b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14,777))) &&
( (C01b02a.Contains(10) && !C01b02b.Contains(10)) || (!C01b02a.Contains(10) &&
C01b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14,777))) &&
( (C01b02a.Contains(11) && !C01b02b.Contains(11)) || (!C01b02a.Contains(11) &&
C01b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14,777))) &&
( (C01b02a.Contains(12) && !C01b02b.Contains(12)) || (!C01b02a.Contains(12) &&
C01b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14,777))) &&
( (C01b02a.Contains(13) && !C01b02b.Contains(13)) || (!C01b02a.Contains(13) &&
C01b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14,777))) &&
( (C01b02a.Contains(14) && !C01b02b.Contains(14)) || (!C01b02a.Contains(14) &&
C01b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14,777)))
```

Validation Message: not equal no services

Validation Condition:

```
(!self.Contains(777) && self.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14)) || (self.Contains(777) &&
!self.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14))
```

Validation Message: if choose none, not choose other

- [2] **C02b02b: C02b02b. In the last 12 months, (start from this month) which months have the worst electric service. (Multiple response)**

Validation Condition:

```
( (C02b02a.Contains(1) && !C02b02b.Contains(1)) || (!C02b02a.Contains(1) &&
C02b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14,777))) &&
( (C02b02a.Contains(2) && !C02b02b.Contains(2)) || (!C02b02a.Contains(2) &&
C02b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14,777))) &&
( (C02b02a.Contains(3) && !C02b02b.Contains(3)) || (!C02b02a.Contains(3) &&
C02b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14,777))) &&
( (C02b02a.Contains(4) && !C02b02b.Contains(4)) || (!C02b02a.Contains(4) &&
C02b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14,777))) &&
( (C02b02a.Contains(5) && !C02b02b.Contains(5)) || (!C02b02a.Contains(5) &&
C02b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14,777))) &&
( (C02b02a.Contains(6) && !C02b02b.Contains(6)) || (!C02b02a.Contains(6) &&
C02b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14,777))) &&
( (C02b02a.Contains(7) && !C02b02b.Contains(7)) || (!C02b02a.Contains(7) &&
C02b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14,777))) &&
( (C02b02a.Contains(8) && !C02b02b.Contains(8)) || (!C02b02a.Contains(8) &&
C02b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14,777))) &&
( (C02b02a.Contains(9) && !C02b02b.Contains(9)) || (!C02b02a.Contains(9) &&
C02b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14,777))) &&
( (C02b02a.Contains(10) && !C02b02b.Contains(10)) || (!C02b02a.Contains(10) &&
C02b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14,777))) &&
( (C02b02a.Contains(11) && !C02b02b.Contains(11)) || (!C02b02a.Contains(11) &&
C02b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14,777))) &&
( (C02b02a.Contains(12) && !C02b02b.Contains(12)) || (!C02b02a.Contains(12) &&
C02b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14,777))) &&
( (C02b02a.Contains(13) && !C02b02b.Contains(13)) || (!C02b02a.Contains(13) &&
C02b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14,777))) &&
( (C02b02a.Contains(14) && !C02b02b.Contains(14)) || (!C02b02a.Contains(14) &&
C02b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14,777)))
```

Validation Message: not equal no services

Validation Condition:

```
(!self.Contains(777) && self.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14)) || (self.Contains(777) &&
!self.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14))
```

Validation Message: if choose none, not choose other

- [3] **C05b02b: C05b02b. What are the services like for each month? Note: For Worst months. (Multiple choice)**

Validation Condition:

```
(!self.Contains(777) && self.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14)) || (self.Contains(777) &&
!self.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14))
```

Validation Message: if choose none, not choose other

Validation Condition:

```
((C05b02a.Contains(1) && !C05b02b.Contains(1)) || (!C05b02a.Contains(1) &&
C05b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14,777))) &&
((C05b02a.Contains(2) && !C05b02b.Contains(2)) || (!C05b02a.Contains(2) &&
C05b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14,777))) &&
((C05b02a.Contains(3) && !C05b02b.Contains(3)) || (!C05b02a.Contains(3) &&
C05b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14,777))) &&
((C05b02a.Contains(4) && !C05b02b.Contains(4)) || (!C05b02a.Contains(4) &&
C05b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14,777))) &&
((C05b02a.Contains(5) && !C05b02b.Contains(5)) || (!C05b02a.Contains(5) &&
C05b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14,777))) &&
((C05b02a.Contains(6) && !C05b02b.Contains(6)) || (!C05b02a.Contains(6) &&
C05b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14,777))) &&
((C05b02a.Contains(7) && !C05b02b.Contains(7)) || (!C05b02a.Contains(7) &&
C05b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14,777))) &&
((C05b02a.Contains(8) && !C05b02b.Contains(8)) || (!C05b02a.Contains(8) &&
C05b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14,777))) &&
((C05b02a.Contains(9) && !C05b02b.Contains(9)) || (!C05b02a.Contains(9) &&
C05b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14,777))) &&
((C05b02a.Contains(10) && !C05b02b.Contains(10)) || (!C05b02a.Contains(10) &&
C05b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14,777))) &&
((C05b02a.Contains(11) && !C05b02b.Contains(11)) || (!C05b02a.Contains(11) &&
C05b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14,777))) &&
((C05b02a.Contains(12) && !C05b02b.Contains(12)) || (!C05b02a.Contains(12) &&
C05b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14,777))) &&
((C05b02a.Contains(13) && !C05b02b.Contains(13)) || (!C05b02a.Contains(13) &&
C05b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14,777))) &&
((C05b02a.Contains(14) && !C05b02b.Contains(14)) || (!C05b02a.Contains(14) &&
C05b02b.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12,13,14,777)))
```

Validation Message: not contains not services at all months

APPENDIX C — OPTIONS

[1] ID1_02: ID1_02. Govt. Grid Electrification (Office)

Options: 11:Kachin - Urban/ Electrified (Govt. grid), 12:Kachin - Urban/ Non-electrified (Govt. grid), 13:Kachin - Rural/ Electrified (Govt. grid), 14:Kachin - Rural/ Non-electrified (Govt. grid), 23:Kayah - Rural/ Electrified (Govt. grid), 32:Kayin - Urban/ Non-electrified (Govt. grid), 33:Kayin - Rural/ Electrified (Govt. grid), 34:Kayin - Rural/ Non-electrified (Govt. grid), 41:Chin - Urban/ Electrified (Govt. grid), 42:Chin - Urban/ Non-electrified (Govt. grid), 44:Chin - Rural/ Non-electrified (Govt. grid), 51:Sagaing - Urban/ Electrified (Govt. grid), 52:Sagaing - Urban/ Non-electrified (Govt. grid), 53:Sagaing - Rural/ Electrified (Govt. grid), 54:Sagaing - Rural/ Non-electrified (Govt. grid), 62:Tanintharyi - Urban/ Non-electrified (Govt. grid), 64:Tanintharyi - Rural/ Non-electrified (Govt. grid), 71:Bago - Urban/ Electrified (Govt. grid), 73:Bago - Rural/ Electrified (Govt. grid), 74:Bago - Rural/ Non-electrified (Govt. grid), 81:Magway - Urban/ Electrified (Govt. grid), 83:Magway - Rural/ Electrified (Govt. grid), 84:Magway - Rural/ Non-electrified (Govt. grid), 91:Mandalay - Urban/ Electrified (Govt. grid), 93:Mandalay - Rural/ Electrified (Govt. grid), 94:Mandalay - Rural/ Non-electrified (Govt. grid), 101:Mon - Urban/ Electrified (Govt. grid), 102:Mon - Urban/ Non-electrified (Govt. grid), 103:Mon - Rural/ Electrified (Govt. grid), 104:Mon - Rural/ Non-electrified (Govt. grid), 111:Rakhine - Urban/ Electrified (Govt. grid), 112:Rakhine - Urban/ Non-electrified (Govt. grid), 113:Rakhine - Rural/ Electrified (Govt. grid), 114:Rakhine - Rural/ Non-electrified (Govt. grid), 121:Yangon - Urban/ Electrified (Govt. grid), 123:Yangon - Rural/ Electrified (Govt. grid), 124:Yangon - Rural/ Non-electrified (Govt. grid), 131:Shan - Urban/ Electrified (Govt. grid), 132:Shan - Urban/ Non-electrified (Govt. grid), 133:Shan - Rural/ Electrified (Govt. grid), 134:Shan - Rural/ Non-electrified (Govt. grid), 141:Ayeyawady - Urban/ Electrified (Govt. grid), 142:Ayeyawady - Urban/ Non-electrified (Govt. grid), 143:Ayeyawady - Rural/ Electrified (Govt. grid), 144:Ayeyawady - Rural/ Non-electrified (Govt. grid), 151:Naypyitaw - Urban/ Electrified (Govt. grid), 153:Naypyitaw - Rural/ Electrified (Govt. grid), 154:Naypyitaw - Rural/ Non-electrified (Govt. grid),

[2] ID1_03: ID1_03. EA Code & Name

Options: 1101:10101124005 - Myitkyina - Myo Thit Gyi(W), 1102:10105102001 - Chiphwe - Oke Kat(W), 1203:10104104502 - Tanaing - Kin Sar(W), 1204:10203101007 - Phakant - Maw Wam Ward(W), 1205:10401102001 - Putao - Ho Kho(W), 1306:10201711002 - Mohnyin - Nyaung Pin Thar(VT), 1407:10203704026 - Phakant - Haung Par(VT), 2301:20101708007 - Loikaw - Chi Kel(VT), 2302:20102711005 - Dimawso - Demoso(VT), 3201:30152102001 - Shan Ywathit(Sub-Tsp) - No (2)(W), 3202:30301103002 - Myawady - Kyan Khin Su(W), 3203:30301104003 - Myawady - Myanmar Su(W), 3204:30301104043 - Myawady - Myanmar Su(W), 3205:30301105029 - Myawady - Ah Nauk Paing(W), 3206:30401105001 - Kawkareik - Auk Taung Thu Su(W), 3207:30401203003 - Kawkareik - No (3)(W), 3208:30451104005 - Payarhthonezu(Sub-Tsp) - No (4) Ward(W), 3309:30101777503 - Hpa-an - Hlar Kar(VT), 3310:30102712002 - Hlaingbwe - Hti Lon(VT), 3411:30151705003 - Paingkyon(Sub-Tsp) - Naung Boe Gyi(VT), 4101:40101103006 - Haka - Pyi Taw Thar(W), 4202:40251102001 - Rihkuadal(Sub-Tsp) - No(2)(W), 4403:40303717001 - Kanpalet - Hmu Chien Dein(VT), 5101:50101101006 - Sagaing - Dawei Zay(W), 5102:50301112011 - Morywa - Htan Taw(W), 5103:50301116001 - Morywa - Hpa Yar Gyi(W), 5204:50503102001 - Mingin - Zay Tan(W), 5205:50601102009 - Tamu - Zay Tan(W), 5206:50652105001 - Khompat(Sub-Tsp) - No (5)(W), 5207:50801101005 - Hkamti - Paw Maing(W), 5308:50101763001 - Sagaing - Ywar Thit Gyi(VT), 5309:50102712003 - Myinmu - Ahr Lar Kat Pa(VT), 5310:50202724003 - Khin U - Gway Kone(VT), 5311:50204753007 - Kambalu - Zee Kone (South)(VT), 5312:50301716003 - Morywa - Kha Tet Kan (South)(VT), 5313:50301746003 - Morywa - Pu Yit Kone(VT), 5314:50402730004 - Indaw - Maw Lu(VT), 5315:50405726002 - Kawlin - Nga Pway Lay(VT), 5316:50902703003 - Salingyi - Paung Wa(VT), 5317:50902730003 - Salingyi - Kyaing Kha Mauk(VT), 5418:50203769003 - Wetlet - Ma Gyi Hpyu(VT), 5419:50302753003 - Butalin - Ywar Thit(VT), 5420:50501705004 - Kalay - Sa Khan Gyi(VT), 5421:50901732001 - Yinmarpin - Inn(VT), 6201:60101101003 - Dawei - San Chi(W), 6202:60101106006 - Dawei - Kyet Sa Pyin(W), 6203:60101114013 - Dawei - Htein Thit, 6204:60103102003 - Thayetchaung - Kyauk Myaung(W), 6205:60201108004 - Myeik - Kan Gyi(W), 6206:60201110008 - Myeik - Kan Hpyar(W), 6207:60201112016 - Myeik - Myeik (South)(W), 6208:60201112052 - Myeik - Myeik (South)(W), 6209:60251104003 - Palauk(Sub-Tsp) - No(4)(W), 6210:60301105005 - Kawthoung - Aung Thu Kha(W), 6211:60301110011 - Kawthoung - Shwe Pyi Thar(W), 6212:60353101501 - Karathuri(Sub-Tsp) - No(1)(W), 6413:60201703011 - Myeik - In Ga Maw(VT), 7101:70101101007 - Bago - Myo Twin (East-Ka Gyi)(W), 7102:70101102018 - Bago - Myo Twin (East-Kha Gway)(W), 7103:70106105001 - Kyauktaga - Kwin (North)(W), 7104:70106203002 - Kyauktaga - Pyi Taw Thar(W), 7105:70301106040 - Pyay - Ywar Be(W), 7106:70301106043 - Pyay - Ywar Be(W), 7307:70101733017 - Bago - Inn Ta Kaw(VT), 7308:70103719010 - Kawa - Tha Pyu(VT), 7309:70106734017 - Kyauktaga - Hpa Do(VT), 7310:70201712006 - Toungoo - Kyauk Taing(VT), 7311:70202744012 - Yaedash - Thar Ga Ya(VT), 7312:70205724501 - Oatwin - Pauk Taw(VT), 7313:70301746502 - Pyay - Htan Ma Kauk(VT), 7314:70301746502 - Paunde - Pauk Taw(VT), 7315:70306710005 - Shwedau - Nwar Ma Yan(VT), 7316:70404714011 - Okpo - Aye Mya Thar Yar(VT), 7417:70103706002 - Kawa - Kha Ni(VT), 7418:70108723001 - Shwegyin - Thet Kei Kone(VT), 7419:70302702002 - Paukkaung - Wet Toe(VT), 7420:70402739007 - Letpadan - Zee Hpyu Kone(VT), 8101:80101108007 - Magway - Pyi Taw Thar(W), 8102:80101110005 - Magway - Kan Thar(W), 8103:80305107006 - Aunglan - San Chaung(W), 8104:80305109013 - Aunglan - Ywa htaung(W), 8305:80101721010 - Magway - Ma Gyi Kan(VT), 8306:80106723501 - Natmauk - Ywar Mun(VT), 8307:80202732003 - Pwint Phyu - Zee Taw(VT), 8308:80302711003 - Minhla - Pan Taw P Yin(VT), 8309:80401713011 - Pakokku - Kywe Te(VT), 8310:80402731004 - Yesagyo - Ma Au (Middle)(VT), 8411:80101730005 - Magway - Nyau ng Kan(VT), 8412:80106730002 - Natmauk - Na-Let Khoke Pin(VT), 8413:80302735001 - Minhla - Yae Twin Gyi(VT), 8414:80402775006 - Yesagyo - Htan Nge Taw(VT), 9101:90101115501 - Aungmyetharzan - U Poke Htaw(W), 9102:90101118010 - Aungmyetharzan - Thi Ri Mar Lar (West)(W), 9103:90103117002 - Mahaangmye - Ma Har Myaing (2)(W), 9104:90104102002 - Chanmyatharzi - Kyung Lone U Shuang(W), 9105:901015110006 - Pyigyidagun - (Ga Nge)(W), 9106:90105114019 - Pyigyidagun - (Sa Lein)(W), 9107:90204101005 - Mogok - Myo Ma(W), 9108:90204105001 - Mogok - Yae Pu(W), 9109:90551101003 - Ngathayauk(Sub-Tsp) - No (1)(W), 9110:90701102001 - Meiktila - Pauk Chaung(W), 9311:90106702001 - Amarapura - Yin Taw(VT), 9312:90107703003 - Patheingyi - Zee Cho Kone(VT), 9313:90107745010 - Patheingyi - Ohn Chaw(VT), 9314:90201726003 - Pysin Oo Lwin - Inn Yar(VT), 9315:90202729013 - Madaya - Kyauk Sa Yit Kone (South)(VT), 9316:90205717005 - Thabeikkyin - Chaung Gyi (Ta Kaung Sub-tsp)(VT), 9317:90301778003 - Kyaukse - Paung Laung Gyi(VT), 9318:90304709002 - Tada U - Han Thar Wa Di(VT), 9319:90401750002 - Myingyan - Kun Saik(VT), 9320:90404751003 - Kyaukpadaung - Let Pan Pin(VT), 9321:90501720007 - Nyaung U - Mee Lau ng Pyar(VT), 9322:90703732003 - Thazi - Han Zar(VT), 9323:90704760007 - Wundwin - Ywar Tan(VT), 9424:90107726004 - Patheingyi - Done Kone(VT), 9425:90302703009 - Singaung - Mee Thway Boke(VT), 9426:90403764001 - Natogyi - Ka Daung(VT), 9427:90602720005 - Pyawbwe - Seik Gyo(VT), 10101:100101115013 - Mawlamyine - Zay Cho(W), 10102:100101127007 - Mawlamyine - Naung Kha Ri(W), 10203:100106106001 - Ye - Yan Gyi Aung(W), 10204:100151102006 - Lamine(Sub-Tsp) - No (2)(W), 10305:100104713015 - Thanbyuzayat - Pa Nga(VT), 10306:100105704003 - Mudon - Kyauk Ta Lone(VT), 10307:100201743006 - Thaton - Htaung Hmu(VT), 10308:100202709025 - Paung - Zin Kyaik(VT), 10409:100102706015 - Kyaikemaraw - Hla Ka Zaing(VT), 10410:100203709004 - Kyaikto - Kha Ywea(VT), 11101:110101108000 - Sittway - Ward with 2 EAs, 11102:110101127000 - Sittway - Ward with 8 EAs, 11103:110501107002 - Thandwe - No(7)(W), 11204:110104102002 - Yathedaung - Chaung Wa(W), 11205:110204104000 - Myebon - Ward with 7 EAs, 11206:110301105000 - Maungtaw - Ward with 8 EAs, 11207:110302104005 - Buthidaung - Tha Pyay Kone(W), 11208:110552102002 - Kyeintali(Sub-Tsp) - No(2)(W), 11309:110101701503 - Sittway - Maung Ni Pyin(VT), 11310:110401701002 - Kyaukpyu - Pysin Hpyu Maw(VT), 11411:110103750000 - Pauktaw - VT with 19 EAs, 11412:110202742000 - Kyauktaw - VT with 6 EAs, 11413:110301760000 - Maungtaw - VT with 7 EAs, 11414:110501722013 - Thandwe - Sin Gaung(VT), 12101:120101110001 - Insain - Kyo Kone (West)(W), 12102:120102114007 - Mingaladon - Kyan Khin Su(W), 12103:120102125035 - Mingaladon - Pyan Let Nay Yar Cha Htar Ye(W), 12104:120107107003 - Shwepyitha - No(7)(W), 12105:120107115023 - Shwepyitha - No(15)(W), 12106:120108106043 - Hlinethaya - No(6)(W), 12107:120108112022 - Hlinethaya - No(12)(W), 12108:120201106007 - Thingangyun - Nga/Kha(W), 12109:120202103003 - Yankin - No(3)(W), 12110:120204101012 - North Okkalapa - No(1)(W), 12111:120204114014 - North Okkalapa - (Hta Won Bei)(W), 12112:120205108005 - Thakayta - No(4)(South)(W), 12113:120206111002 - Dawbon - Ya Mon Nar(2)(W), 12114:120208102010 - Pazuntaung - No(2)(W), 12115:120210108014 - Dagon Myothit(South) - No(24)(W), 12116:120210126014 - Dagon Myothit(South) - No(106)(W), 12117:120211120007 - Dagon Myothit(North) - No(44)(W), 12118:120212140002 - Dagon Myothit(East) - Sit Pin (South)(W), 12119:120214104013 - Mingala Taungnyunt - Kan Taw Ka Lay (West)(W), 12120:120301112004 - Thanlyin - Myo Ma (South)(W), 12121:120308103004 - Dala - Ant Gyi Ah Nauk(W), 12122:120351104003 - Tada (Sub-Tsp) - No(4)(W), 12123:120406119009 - Kyimyindine - Aye Ywar(W), 12124:120407119016 - Sangyung - Myay Ni Kone (South)(W), 12125:120410101020 - Mayangon - No(1)(Tha Maing Bu Tar West)(W), 12126:120410106008 - Mayangon - No(6)(Nyar Na Sar Gi)(W), 12327:120102704016 - Mingaladon - Pysin Ma Pin(VT), 12328:120102705026 - Mingaladon - Thin Gan Kyun Gyi(VT), 12329:120103729501 - Hmawby - Nyaung Hnit Pin(VT), 12330:120103739013 - Hmawby - Sat Thwar Taw(VT), 12331:120104739005 - Hlegu - Bar Lar Ta Dar Gyi(VT), 12332:120104747003 - Hlegu - Boe Yin Ka Lay(VT), 12333:120107703001 - Shwepyitha - Kyauk Kone(VT), 12334:120107704011 - Shwepyitha -

Hlaw Kar(VT), 12335:120212703001 - Dagon Myothit(East) - Lay Daunt Kan (East)(VT), 12336:120213702006 - Dagon Myothit(Seikkan) - Nyaung Pin(VT), 12337:120306726011 - Kawhmu - Nat Sin Kone(VT), 12338:120306726012 - Kawhmu - Nat Sin Kone(VT), 12439:120301709002 - Thannlyin - Tha Pyay Kone(VT), 12440:120307716003 - Kungyangon - Taw Kha Yan (West)(VT), 13101:130101119018 - Taunggyi - Kyaung Gyi Su(W), 13102:130101304001 - Taunggyi - Dana Thei Di(W), 13103:130204103002 - Kunhing - No(3)(W), 13104:130401101018 - Lashio - No(1)/Thi Ri Ma Har(W), 13105:130502113002 - Namkham - No(13)(W), 13106:130602102005 - Naungkhio - Bu Tar(W), 13207:130253101003 - Karli(Sub-Tsp) - No(1)(W), 13208:130652104001 - Minelon(Sub-Tsp) - Hkan Ti(W), 13209:130851101001 - Chinshwehaw(Sub-Tsp) - No(1)(W), 13210:131002103004 - Pan San(Pan Kham) - Ward (3), 13211:131101102501 - Kengtung - No(2)(W), 13212:131104101009 - Minelar - Mine Lar Myo Paw 1(W), 13213:131251102001 - Minekoke(Sub-Tsp) - No(2)(W), 13214:131301105002 - Tachileik - Sang Hseng(W), 13215:131301106009 - Tachileik - Mae Khawng(W), 13316:130103706003 - Hopon - Sa Ngaw(VT), 13317:130104708012 - Hsihseng - Par Law Par Kei(VT), 13318:13015371003 - Naungtayar(Sub-Tsp) - Hpa Yar Hpyu(VT), 13319:130201704006 - Loilem - Mong Pun(VT), 13320:130502707002 - Namkham - Nawng Hkam(VT), 13321:130502725001 - Namkham - Tar Kun(VT), 13322:130605714006 - Namsan(North) - Hpa Yar Gyi(VT), 13423:130108703039 - Yat sauk - Yan Twin Ngar Kyaung(VT), 13424:130401712001 - Lashio - Mak Hki Nu(VT), 13425:130605713004 - Namsan(North) - Kyauk Hpyu(VT), 13426:131103702004 - Mineyan - Mong Lway(VT), 14101:140105114013 - Pathein - No (14)(W), 14102:140202102009 - Daydaye - No (2)(W), 14103:140403101002 - Einme - Chaung Wa Paing(W), 14104:140502109003 - Labutta - No (9)(W), 14205:140152103005 - Hainggyikyun (Sub-Tsp) - No (3)(W), 14206:140154104005 - Ngwehsaung(Sub-Tsp) - No (4)(W), 14307:140103731001 - Kyonpyaw - Shar Khe(VT), 14308:140602739004 - Zalun - Kyon Sha(VT), 14309:140603707006 - Myanaung - Nyaung Myit Swea(VT), 14410:140102761002 - Kyaungon - Seik Hpu Ni(VT), 14411:140107760002 - Thapaung - Shwe Yaung Cha(VT), 14412:140203737004 - Phyapong - Kha Naung Shan Kwin(VT), 14413:140302746003 - Danubyu - Taw Kwe(VT), 14414:140402702002 - Wakema - Pauk Tein(VT), 14415:140501808008 - Mawlamyinegyun - Hlaing Bone(VT), 14416:140604717001 - Laymyethna - Shan(VT), 15101:150104101518 - Pobbathiri - Ba Yint Naung(W), 15102:150201101040 - Pyinmana - Ywar Kauk(W), 15303:150104705009 - Pobbathiri - Tha Pay Kone(VT), 15304:150201701014 - Pyinmana - Kin Pun Tan(VT), 15305:150202755025 - Lewe - Aye Lar(VT), 15406:150101748005 - Tatkon - Shwe Maung Gut(VT),

[3] **A03_04: A03_04. What is the highest educational qualification acquired by %A02_01%?**

Options: 0:attending grade 1, 1:Grade 1 (Kindergarten, Pre-primary), 2:Grade 2 (1st std., Primary), 3:Grade 3 (2nd std., Primary), 4:Grade 4 (3rd std., Primary), 5:Grade 5 (4th std., Primary), 6:Grade 6 (5th std., Middle school), 7:Grade 7 (6th std., Middle school), 8:Grade 8 (7th std., Middle school), 9:Grade 9 (8th std., Middle school), 10:Grade 10 (9th std., High school), 11:Grade 11 (10th std., High school), 12:University/College classes (Tertiary), 13:Vocational trainings, 14:Diploma (Tertiary), 20:Bachelor's Degree (BSc/ BA), 30:Graduate of an institute/ post graduate diploma, 40:Master's/ PhD, 50:Monastic School/other religious school, 60:No Schooling,

[4] **A04_03: A04_03. Please describe the kind of trade or business %A02_01%'s main occupation best fits from the list of industries.**

Options: 1:A - Agriculture, forestry and fishing, 2:B - Mining and quarrying, 3:C - Manufacturing, 4:D - Electricity, gas, steam and air conditioning supply, 5:E - Water supply; sewerage, waste management and remediation activities, 6:F - Construction, 7:G - Wholesale and retail trade; repair of motor vehicles and motorcycles, 8:H - Transportation and storage, 9:I - Accommodation and food service activities, 10:J - Information and communication, 11:K - Financial and insurance activities, 12:L - Real estate activities, 13:M - Professional, scientific and technical activities, 14:N - Administrative and support service activities, 15:O - Public administration and defense; compulsory social security, 16:P - Education, 17:Q - Human health and social work activities, 18:R - Arts, entertainment and recreation, 19:S - Other service activities, 20:T - Activities of households as employers; undifferentiated goods- and services-producing activities of households for own use, 21:U - Activities of extraterritorial organizations and bodies,

[5] **C1: C1. Does your house have the following light bulbs/ electrical products? Read option**

Options: 101:Less than 25W, 102:Incandescent light bulbs (25W to 40W), 103:Incandescent light bulbs (41W to 75W), 104:Incandescent light bulbs (76W and above), 201:Fluorescent light tubes (10 W), 202:Fluorescent light tubes (20 W), 203:Fluorescent light tubes (40 W), 301:Compact fluorescent light bulbs (<9 W), 302:Compact fluorescent light bulbs (9W to 15W), 303:Compact fluorescent light bulbs (16W-20W), 304:Compact fluorescent light bulbs (21W to 30W), 305:Compact fluorescent light bulbs (31W to 40W), 306:Compact fluorescent light bulbs (41 W - 50W), 307:Compact fluorescent light bulbs 51W and above, 401:LED light bulbs (<9 W), 402:LED light bulbs (9W to 15W), 403:LED light bulbs (16W-20W), 404:LED light bulbs (21W to 30W), 405:LED light bulbs (31W to 40W), 406:LED light bulbs (41 W - 50W), 407:LED light bulbs 51W and above, 501:Radio/ Radio Cassette, 502:B&W TV, 503:Regular Color TV, 504:Flat color TV (LCD/LED), 505:Satellite dish, 506:Sound equipment, 507:Home Theatre System, 508:Portable EVD Player, 509:VCD/DVD, 601:Fan, 602:Air cooler, 603:Iron, 604:Electric sewing machine, 605:Domestic water pump, 606:Electric charger, 607:Inverter, 608:UPS, 609:Power Surge protector, 610:Refrigerator, 611:Electric water cooler, 612:Air conditioning, 613:Washing machine, 614:Freezer, 701:Rice cooker, 702:Electric pot/ pen, 703:Electric hot water pot/kettle, 704:Hot plate, 705:Electric stove/range/ oven, 706:Micro wave oven, 707:Blender, 708:Toster/Sandwich Maker, 709:Coffee Maker, 801:Computer Desktop, 802:Computer Laptop, 803:Regular cell phone, 804:Smart phone, 805:Tablet, 806:CCTV, 807:Other, specify,

[6] **H03_03: H03_03. What is the MAIN fuel you use in this stove?**

Options: 1:LPG/cooking gas, 2:Wood purchased, 3:Wood collected, 4:Charcoal, 6:Kerosene, 7:Piped Natural Gas, 8:Coal/lignite, 9:Animal Waste/Dung, 10:Crop Residue/Plant Biomass, 11:Saw Dust, 12:Coal Briquette, 13:Biomass Briquette, 14:Electric, 15:Processed biomass (pellet s)/ woodchips, 16:Biogas, 17:Ethanol, 18:Garbage/plastic, 19:Not applicable, 555:Other, specify,

[7] **H03_06: H03_06. What is the MAIN fuel you use in this stove?**

Options: 1:LPG/cooking gas, 2:Wood purchased, 3:Wood collected, 4:Charcoal, 6:Kerosene, 7:Piped Natural Gas, 8:Coal/lignite, 9:Animal Waste/Dung, 10:Crop Residue/Plant Biomass, 11:Saw Dust, 12:Coal Briquette, 13:Biomass Briquette, 14:Electric, 15:Processed biomass (pellet s)/ woodchips, 16:Biogas, 17:Ethanol, 18:Garbage/plastic, 19:Not applicable, 555:Other, specify,

[8] **H01_19a: H01_19a. [Most used] In the last 12 months, what are the fuels you used on [STOVE]?**

Options: 1:Wood purchased, 2:Wood collected, 3:Charcoal, 4:Solar, 5:Kerosene, 6:Piped Natural Gas, 7:Coal/Ignite, 8:Animal Waste/Dung, 9:Crop residue/Plant Biomass, 10:Saw dust, 11:Coal Briquette, 12:Biomass briquette, 13:Electric, 14:Pellets/Woodchips (processed biomass), 15:Biogas, 16:Ethanol, 17:Garbage/Plastic, 18:Other, specify,

[9] **H01_19b: H01_19b. [Second Most used] In the last 12 months, what are the fuels you used on [STOVE]?**

Options: 1:Wood purchased, 2:Wood collected, 3:Charcoal, 4:Solar, 5:Kerosene, 6:Piped Natural Gas, 7:Coal/Ignite, 8:Animal Waste/Dung, 9:Crop residue/Plant Biomass, 10:Saw dust, 11:Coal Briquette, 12:Biomass briquette, 13:Electric, 14:Pellets/Woodchips (processed biomass), 15:Biogas, 16:Ethanol, 17:Garbage/Plastic, 18:Other, specify, 777:None,

LEGEND

Legend and structure of information in this file

Name of section	Enabling condition for this section	Type of question, scope	Variable name
SECTION 5: OTHER INCOME SOURCES	E s4_other_sources_which.Contains(98)	Answer options	
Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur?	I This refers to family relations E s3_time_other > 0 V1 s4_re1_leaders_which.Contains(98) M1 Can not be itself V2 (s3_time_other_breeding_advice <= (50 - s3_time_art_insem_advice)) s3_time_other_breeding_advice == 0 M2 This person is not in the list F optioncode != s5_ignored_option_code	MULTI-SELECT SCOPE: PREFILLED	s4_re1_leaders_other
Additional information: "I" – Question instruction "E" – Enabling condition "V1" – Validation condition №1 "M1" – Message for validation №1 "F" – Filter in Categorical questions		01 <input type="checkbox"/> Community animal health workers 02 <input type="checkbox"/> Private 03 <input type="checkbox"/> Government 04 <input type="checkbox"/> Livestock keepers association 05 <input type="checkbox"/> NGO And 5 other [13]	Link to full set in appendix

Breadcrumbs

Type or roster	Roster Title
CHAPTER 3 IDENTIFICATION / Roster:	LEADER RELATION DETAILS generated by fixed list:
01	Ward Livestock Officer
02	Village Livestock Officer
99	Other (specify)
List items	